भारत सरकार
Government of India
जल शक्ति मंत्रालय,
Ministry of Jal Shakti,
जल संसाधन, नदी विकास और गंगा संरक्षण विभाग,
Department of Water Resources,
River Development and
Ganga Rejuvenation

केंद्रीय भूमि जल बोर्ड
Central Ground Water Board

NAQUIM 2.0

जलभृत प्रबंधन योजना
Aquifer Management Plan

वीरपंडी, कदयमपट्टी और ओमलुर ब्लॉक, सलेम जिला, तमिलनाडु।
Veerapandi, Kadayampatty and Omalur Blocks, Salem District, Tamil Nadu.

प्राथमिकताप्रकार: खराब भूजल गुणवत्ता वाले क्षेत्र
Priority Type: Poor Ground Water Quality Areas

South Eastern Coastal Region (SECR)
Chennai
2024

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Report on

Aquifer Management Plan
Veerapandi, Kadayampatty and Omalur Blocks, Salem District, Tamil Nadu.

Contributor's page

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सत्यमेव जयते

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन,
नदी विकास और गंगा संरक्षण विभाग
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Message

National Aquifer Mapping and Management Programme (NAQUIM) was initiated by Central Ground Water Board (CGWB) in 2012 with the goal of mapping and managing aquifers across India to promote sustainable groundwater use. So far the entire mappable area of 25 lakh km^2 has been covered under the NAQUIM programme. While these initial efforts have been highly impactful, they faced certain limitations especially in terms of spatial resolution.

Taking it forward, CGWB has now initiated **NAQUIM 2.0,** the next phase of aquifer mapping designed to provide a deeper, more detailed understanding of India's groundwater systems. During 2023-24, CGWB had completed NAQUIM 2.0 studies in 68 study areas. The study areas were selected in consultation with the State/UT government agencies.

I am confident that this report of NAQUIM 2.0 study will serve as a critical resource for government agencies, research institutions, NGOs, and the general public. By fostering a collaborative approach to groundwater management, this report will play a key role in safeguarding and sustaining India's precious ground water resources.

(Dr. Sunil Kumar Ambast)
Chairman, CGWB

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Member's Message

Groundwater plays a vital role in times of drought and is a resilient resource for mitigating the effects of climate change. It needs to be managed judiciously to ensure its prolonged sustainability. A clear understanding of the status of availability and utilization of groundwater resources is essential for its management. CGWB has already completed Aquifer mapping throughout the Country. In this context that micro level Aquifer mapping (Naquim 2.0) is becomes significance.

The report titled "Aquifer Management Plan of Veerapandi, Kadayampatty and Omalur Blocks, Salem District, Tamil Nad" is extensive scientific study carried out with close association of State Govt. officers, Panchayat leaders, Ward councilors etc., The study covers the area of 675 Sq.KM. representing three blocks of Salem district namely Veerapani, Kadayampatty and Omalur. The study area is highly water stressed and urban locations which attracts population continuously increases stress to Aquifer. People consume drinking water from dug wells, bore wells without proper qualitative assessment of Aquifers. This report will provide suitable locations of safe drinking water sources both Aquifer-I and Aquifer-II.

The village wise suitable artificial recharge structure interventions are identified and recommended will be beneficial for the State agencies. Further, village wise alternate sources for drinking purposes of Aquifer-I and Aquifer-II is provided will be useful for the Panchayat officials to maintain & utilize the sources properly. CGWB has constructed 10 high yielding wells within the Fluoride range will instantly utilizable in highly needful locations.

I sincerely appreciate the work done by the officers of CGWB, SECR.

T.S. Anitha Shyam

Foreword

Groundwater is the important source of freshwater that meets the demand of domestic, agricultural and industrial sectors of the country. The replenishable resource has been indiscriminately exploited in some parts of the country by various users as it is easily available and reliable. Intensive and unregulated groundwater pumping in many areas has caused rapid and widespread groundwater decline. Central Ground Water Board (CGWB) has completed the mapping of aquifers for the entire country at 1:50000 scale. In order to address the groundwter issues at micro level CGWB has taken up NAQUIM 2.0 to provide information to support groundwater management decisions at village panchayat level.

As part of the NAQUIM 2.0 three blocks in Salem district was taken up for detailed study on the impact of high fluoride in groundwater and to explore the availability of alternate source. The fluoride levels in the ground water of Veerapandi, Kadayampatty and Omalur blocks exceeds the permissible limit. The major issues in the district include water scarcity, high concentration of Fluoride in patches leading to risk of dental and skeletal fluorosis and sustainability of wells.

Results of the aquifer mapping studies shows the presence of 2 aquifer units (aquifer unit I & II). Aquifer –I in weathered Gneiss have thickness of 4.5 to 25m, yielding 750 to 9000 liters /hour and sustains for 2 to 4 hours. In charnockite area thickness 6 to 20m, yielding 750 to 2500 liters / hour and sustains 2 to 3 hours. Aquifer-II Jointed/ fractured Gneiss range between 19 and 180, yielding 250-90000 liters / hour sustains for 3 to 5 hours. In charnockite area thickness 31-182, yielding 250 to 68000 liters / hour and sustains 2 to 3 hours.

Results of groundwater quality analysis shows that in 75 village panchayat Flouride concentration is in the range of 1mg/l to 1.5mg/l in Aquifer-I and 55 village panchayats have Fluoride concentration more than 1.5mg/l. In Aquifer-II Flouride concentration of 1 to 1.5 mg/l is observed in 60 village panchayat and Fluoride concentration more than 1.5mg/l is observed in 15 village panchayats.

CGWB, SECR has successfully constructed 10 high yielding exploratory wells having fluoride under within the permissible limit. Village wise artificial recharge suitable interventions recommended in suitable locations for ground water sustainability.

I hope NAQUIM 2.0 report will be useful for the district administration, water managers, stake holders in knowing the aquifer and managing it resources in Veerapandi, Kadayampatty and Omalur block, Salem district.

M.Sivakumar
Regional Director

Executive Summary

Aquifer mapping 2.0 studies were carried out in the part of Salem district of Tamil Nadu state. Veerapandi, Kadayampatty and Omalur are the three blocks. The data pertinent to geology, geophysics, hydrology, hydrochemistry was collected, synthesised and analysed to bring out this report. The Area covered is 675 Sq.km and the mappale area is 550 sq.km, which is predominantly agriculture area, drained by Bhavani River basin and its tributaries. Total population of the area is 506794 and population density is 751. The normal annual rainfall over the district varies from about 800 mm to 900 mm. The Study area falls in Bhavani River basin and the area drained by Sarabanga and Tirumanimuttar which are important tributaries of Bhavani River and originate in the Shevroy hills and drained through study area. The area forms part of the upland plateau region with has many hill ranges, hillocks and undulating terrain with a gentle slope towards south west. The prominent geomorphic units identified in the area are 1) Hills and Plateau, 2) Pediment Zone. The important hill ranges in the study are Yercaud hills and Kanjamalai hills and most of area covered by agricultural land followed by Urban, waste lands are seen where the most of foot hills area are became barren due to shortage of rainfall and water, Dug wells and Bore wells are the major source used for irrigation purposes in the study area, around 30% area irrigated by micro irrigation, The total irrigated area of the study area is 443 sq.km with main water intensive crops irrigated are Paddy, sugarcane and banana. If monsoon fails, the farmers start to cultivate less water intensive crops. The area is underlain by Archaean Crystalline formations with recent alluvial and Colluvial deposits of limited areal extents along the courses of major rivers and foothills respectively. Weathered and fractured crystalline rocks constitute the important aquifer systems in the area. Ground water occurs under phreatic conditions in the weathered mantle and under semi-confined conditions in the fractured zones and is developed by means of dug wells, shallow bore wells. The depth of dug wells ranges from 4 to 25 m bgl the water level ranges from 2.50 to 17 m bgl during the pre-monsoon period. During post monsoon period the water level ranges from 2.52 to 17.3m bgl. During pre- monsoon season, majority of the dug wells having very less yield. The yield of dug wells ranges from 3 to 7 lps and sustains 2 to 5 hours of pumping. The thickness of weathered zone Aquifer I ranges from 4.5 to 25 m with an average thickness of 14.5m. The Central Ground Water Board has drilled 30 numbers of exploratory wells (including Piezometers) in the study area, the depth of the bore wells ranges from 50 m to 304 mbgl. The depth to fracture zones ranges from 15 m to 180 m bgl and the discharge ranges from 0.5 to 25 lps. However, most of the potential fracture zones occur within the depth of 120 mbgl. Aquifer II fractures zone thickness ranges mostly 46 m to 200 m. maximum possibility of set of 3 to 4 fractures may encountered and rare occasion Nil fractures also possible. Yield ranging from 300 to 9500 lph in Aquifer II. The sustainability of the Aquifer I is 2 to 4 hrs and the Aquifer II is 3 to 5 hrs.

The major issues in the study area include declining groundwater levels, sustainability of wells, heavy metal contamination due to industrial clusters and high Fluoride concentration in patches leading to risk of dental and skeletal fluorosis. The fluoride levels in the ground waters of the basin exceed the permissible limit of 1.5ppm due to geogenic contamination. This problem is addressed through alternate drinking water supply to the affected villages. NAQUIM 2.0 is prepared by integrating hydrogeological information such as geology, geophysics, hydro-chemistry and hydrology and analysed to characterise the

quality, quantity and sustainability of ground water in aquifers. 563 Nos of Intensified Ground water samples has been collected in the study area. The concentration of Fluoride in ground water has been observed from 75 key dug wells Aquifer-1 and 75 bore wells Aquifer-II situated at each and every panchayath limit of study area. 282 dug well (Auifer I) sample and 278 bore well (Aquifer II) sample and 8 hand pump water samples collected during September 2023. It has been observed that 48 panchayath Dug Well Fluoride level is more than 1.5 mg/l and 45 panchayath bore well Fluoride level is between 1 to 1.5 mg/l which may not suitable for drinking purpose. Further, it has also observed that 65 panchayath Dug Well Fluoride level is less than 1mg/l and 61 panchayath bore well Fluoride level is less than 1mg/l which may be considered for drinking purpose. The Dug wells with depth ranging from 5.5 m to 45 m. based on the fluoride analysis within 10 m 5 samples has been analysed and 2 are fall in fluoride beyond permissible limit. Maximum samples depth is ranging from 15 to 20m. 130 Nos of samples were collected from these depth range, among these 27% of the samples has fluoride beyond permissible limit. The Bore wells and Hand pumps with depth ranging from 100 m to 300 m. based on the fluoride analysis within 150 m 7 samples has been analysed and all are fall in fluoride within permissible limit. Maximum samples depth is ranging from 200 to 250m. 138 Nos of samples were collected from this depth range; among these 33% of the samples has fluoride beyond permissible limit. After analysing the water samples collected from 563 locations of three blocks. Fluoride free (with in desirable limit) ground water sources identified in 65 panchayath of Aquifer-I and 61 panchayath of Aquifer-II. Local administrations may consider such safe ground water sources for supply of drinking purpose. It has been observed that 48 panchayath Aquifer-I and 44 panchayath Aquifer-II in three blocks has fluoride more than permissible limit i.e. >1.5mg/l such ground water sources need to be avoided to prevent complications due to Fluoride. Drying up / declining water level has been observed in Northern part of area due to higher elevation construction of more recharge structures viz. recharge pit, check dams may improve the sustainability of dug wells. Regular desilting of existing check dams and ponds are suggested for augmenting recharge to the phreatic aquifers. The existing regulatory measures may be modified suitably for optimal utilization of groundwater as well as for sustainable development of rural agricultural based economy. To achieve this goal opinion pool has to be obtained from more user groups and valid suggestions may be incorporated in the regulatory acts for the study area.

कार्यकारी सारांश

तमिलनाडु राज्य के सलेम जिले के हिस्से में जलभृत मानचित्रण 2.0 अध्ययन किया गया। वीरापंडी, कदयमपट्टी और ओमलुर तीन ब्लॉक हैं। इस रिपोर्ट को सामने लाने के लिए भूविज्ञान, भूभौतिकी, जल विज्ञान, जल रसायन से संबंधित डेटा एकत्र किया गया, संश्लेषित किया गया और उसका विश्लेषण किया गया। कवर किया गया क्षेत्र 675 वर्ग किमी है और मैपपेल क्षेत्र 550 वर्ग किमी है, जो मुख्य रूप से कृषि क्षेत्र है, जो भवानी नदी बेसिन और उसकी सहायक नदियों द्वारा सूखा है। क्षेत्र की कुल जनसंख्या 506794 है और जनसंख्या घनत्व 751 है। जिले में सामान्य वार्षिक वर्षा लगभग 800 मिमी से 900 मिमी तक होती है। अध्ययन क्षेत्र भवानी नदी बेसिन में पड़ता है और यह क्षेत्र सरबंगा और तिरुमनिमुत्तार द्वारा प्रवाहित होता है जो भवानी नदी की महत्वपूर्ण सहायक नदियाँ हैं और शेवरॉय पहाड़ियों से निकलती हैं और अध्ययन क्षेत्र से होकर बहती हैं। यह क्षेत्र ऊंचे पठारी क्षेत्र का हिस्सा है, जिसमें दक्षिण पश्चिम की ओर हल्की ढलान के साथ कई पहाड़ी श्रृंखलाएं, पहाड़ियां और लहरदार भूभाग है। क्षेत्र में पहचानी गई प्रमुख भू-आकृतिक इकाइयाँ हैं 1) पहाड़ियाँ और पठार, 2) पेडिमेंट ज़ोन। अध्ययन में महत्वपूर्ण पहाड़ी श्रृंखलाएँ यरकौड पहाड़ियाँ और कंजमलाई पहाड़ियाँ हैं और अधिकांश क्षेत्र कृषि भूमि से आच्छादित हैं, इसके बाद शहरी, बंजर भूमि देखी गई हैं जहाँ अधिकांश फुट पहाड़ी क्षेत्र वर्षा और पानी की कमी के कारण बंजर हो गए हैं। अध्ययन क्षेत्र में सिंचाई प्रयोजनों के लिए खोदे गए कुएं और बोरवेल प्रमुख स्रोत हैं, लगभग 30% क्षेत्र सूक्ष्म सिंचाई द्वारा सिंचित है, अध्ययन क्षेत्र का कुल सिंचित क्षेत्र 443 वर्ग किमी है जिसमें मुख्य रूप से सिंचित जल सघन फसलें धान, गन्ना और केला हैं। यदि मानसून विफल हो जाता है, तो किसान कम पानी वाली फसलों की खेती करना शुरू कर देते हैं। यह क्षेत्र क्रमशः प्रमुख नदियों और तलहटी के पाठ्यक्रमों के साथ सीमित क्षेत्र विस्तार के हालिया जलोढ़ और कोलुवियल जमाव के साथ आर्कियन क्रिस्टलीय संरचनाओं द्वारा रेखांकित किया गया है। अपक्षयित और खंडित क्रिस्टलीय चट्टानें क्षेत्र में महत्वपूर्ण जलभृत प्रणालियों का निर्माण करती हैं। भूजल अपक्षयित आवरण में तीव्र परिस्थितियों में और खंडित क्षेत्रों में अर्ध-सीमित परिस्थितियों में होता है और खोदे गए कुओं, उथले बोर कुओं के माध्यम से विकसित होता है। खोदे गए कुओं की गहराई 4 से 25 मीटर तक होती है और प्री-मानसून अवधि के दौरान जल स्तर 2.50 से 17 मीटर तक होता है। मानसून के बाद की अवधि के दौरान जल स्तर 2.52 से 17.3m bgl तक होता है। प्री-मानसून सीज़न के दौरान, अधिकांश खोदे गए कुओं से बहुत कम उपज होती है। खोदे गए कुओं की उपज 3 से 7 एलपीएस तक होती है और पंपिंग 2 से 5 घंटे तक चलती है। अपक्षयित क्षेत्र जलभृत I की मोटाई 4.5 से 25 मीटर तक है और औसत मोटाई 14.5 मीटर है। केंद्रीय भूजल बोर्ड ने अध्ययन क्षेत्र में 30 खोजपूर्ण कुएं (पीजोमीटर सहित) खोदे हैं, बोरवेल की गहराई 50 मीटर से 304 एमबीजीएल तक है। फ्रैक्चर जोन की गहराई 15 मीटर से 180 मीटर बीजीएल तक होती है और डिस्चार्ज 0.5 से 25 एलपीएस तक होता है। हालाँकि, अधिकांश संभावित फ्रैक्चर क्षेत्र 120 एमबीजीएल की गहराई के भीतर होते हैं। जलभृत II फ्रैक्चर क्षेत्र की मोटाई अधिकतर 46 मीटर से 200 मीटर तक होती है। अधिकतम 3 से 4 फ्रैक्चर होने की संभावना हो सकती है और दुर्लभ अवसर पर शून्य फ्रैक्चर भी संभव है। जलभृत II में उपज 300 से 9500 एलपीएच तक होती है। जलभृत I की स्थिरता 2 से 4 घंटे है और जलभृत II की स्थिरता 3 से 5 घंटे है।

अध्ययन क्षेत्र के प्रमुख मुद्दों में भूजल स्तर में गिरावट, कुओं की स्थिरता, औद्योगिक समूहों के कारण भारी धातु संदूषण और पैच में उच्च फ्लोराइड सांद्रता शामिल है, जिससे दंत और कंकाल फ्लोरोसिस का खतरा होता है। भूगर्भीय प्रदूषण के कारण बेसिन के भूजल में फ्लोराइड का स्तर 1.5 पीपीएम की अनुमेय सीमा से अधिक है। प्रभावित गांवों में वैकल्पिक पेयजल आपूर्ति के माध्यम से इस समस्या का समाधान किया जाता है। NAQUIM 2.0 को भूविज्ञान,

भूभौतिकी, जल-रसायन और जल विज्ञान जैसी हाइड्रोजियोलॉजिकल जानकारी को एकीकृत करके तैयार किया गया है और जलभृतों में भूजल की गुणवत्ता, मात्रा और स्थिरता को चिह्नित करने के लिए इसका विश्लेषण किया गया है। अध्ययन क्षेत्र में 563 गहन भूजल नमूने एकत्र किए गए हैं। अध्ययन क्षेत्र की प्रत्येक पंचायत सीमा पर स्थित 75 प्रमुख खोदे गए कुओं एक्विफर-1 और 75 बोरवेल एक्विफर-II से भूजल में फ्लोराइड की सांद्रता देखी गई है। सितंबर 2023 के दौरान 282 खोदे गए कुएं (एक्विफर I) के नमूने और 278 बोरवेल (एक्विफर II) के नमूने और 8 हैंडपंप के पानी के नमूने एकत्र किए गए। यह देखा गया है कि 48 पंचायत बोरवेल में फ्लोराइड का स्तर 1.5 मिलीग्राम/लीटर से अधिक है और 45 पंचायत बोरवेल में फ्लोराइड का स्तर 1 से 1.5 मिलीग्राम/लीटर के बीच है जो पीने के लिए उपयुक्त नहीं हो सकता है। इसके अलावा, यह भी देखा गया है कि 65 पंचायत बोरवेल में फ्लोराइड का स्तर 1 मिलीग्राम/लीटर से कम है और 61 पंचायत बोरवेल में फ्लोराइड का स्तर 1 मिलीग्राम/लीटर से कम है जिसे पीने के उद्देश्य के लिए माना जा सकता है। 5.5 मीटर से लेकर 45 मीटर तक की गहराई वाले कुएं खोदे गए। 10 मीटर के भीतर फ्लोराइड विश्लेषण के आधार पर 5 नमूनों का विश्लेषण किया गया है और 2 में स्वीकार्य सीमा से अधिक फ्लोराइड पाया गया है। अधिकतम नमूनों की गहराई 15 से 20 मीटर तक है। इन गहराई सीमा से 130 नमूने एकत्र किए गए, इनमें से 27% नमूनों में अनुमेय सीमा से अधिक फ्लोराइड है। 100 मीटर से 300 मीटर तक की गहराई वाले बोरवेल और हैंडपंप। फ्लोराइड विश्लेषण के आधार पर 150 मीटर के भीतर 7 नमूनों का विश्लेषण किया गया है और सभी अनुमेय सीमा के भीतर फ्लोराइड में पाए गए हैं। अधिकतम नमूनों की गहराई 200 से 250 मीटर तक है। इस गहराई सीमा से 138 नमूने एकत्र किए गए; इनमें से 33% नमूनों में स्वीकार्य सीमा से अधिक फ्लोराइड है। तीन ब्लॉकों के 563 स्थानों से एकत्र किए गए पानी के नमूनों का विश्लेषण करने के बाद। एक्वीफर-I के 65 पंचायत और एक्वीफर-II के 61 पंचायत में फ्लोराइड मुक्त (वांछनीय सीमा के साथ) भूजल स्रोतों की पहचान की गई। स्थानीय प्रशासन पीने की आपूर्ति के लिए ऐसे सुरक्षित भूजल स्रोतों पर विचार कर सकता है। यह देखा गया है कि तीन ब्लॉकों में 48 पंचायत एक्विफर-I और 44 पंचायत एक्विफर-II में अनुमेय सीमा से अधिक यानी 1.5 मिलीग्राम/लीटर से अधिक फ्लोराइड है, फ्लोराइड के कारण होने वाली जटिलताओं को रोकने के लिए ऐसे भूजल स्रोतों से बचने की जरूरत है। अधिक पुनर्भरण संरचनाओं जैसे अधिक ऊंचाई पर निर्माण के कारण क्षेत्र के उत्तरी भाग में जल स्तर सूखता/गिरता हुआ देखा गया है। पुनर्भरण गड्ढे, चेक डैम खोदे गए कुओं की स्थिरता में सुधार कर सकते हैं। जलभृत जलभृतों के पुनर्भरण को बढ़ाने के लिए मौजूदा चेक बांधों और तालाबों से नियमित रूप से गाद निकालने का सुझाव दिया गया है। भूजल के इष्टतम उपयोग के साथ-साथ ग्रामीण कृषि आधारित अर्थव्यवस्था के सतत विकास के लिए मौजूदा नियामक उपायों को उपयुक्त रूप से संशोधित किया जा सकता है। इस लक्ष्य को प्राप्त करने के लिए अधिक उपयोगकर्ता समूहों से राय पूल प्राप्त करना होगा और अध्ययन क्षेत्र के लिए नियामक अधिनियमों में वैध सुझाव शामिल किए जा सकते हैं।

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1.0 Introduction

Central Ground Water Board (CGWB) is a scientific department under Department of Water Resources, RD & GR, Ministry of Jal Shakti, Government of India. It is a multidisciplinary Scientific Organization in the field of Ground water with a mandate to "Develop and disseminate technologies for Scientific and Sustainable development and management of India's Ground Water Resources, including monitoring exploration, assessment and augmentation." The Central Ground Water Board was formed in 1970 by renaming erstwhile Exploratory Tube Well Organization. Subsequently, Ground Water Division of Geological Survey of India got merged with it in 1972. The Board was placed under various ministries in the past and since 1982, it is an organization under Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, Government of India. Central Ground Water Board is also discharging the functions as Central Ground Water Authority (CGWA) to regulate and control the development and management of ground water in the country since 1997.

NAQUIM 1.0

Groundwater is of paramount importance for an agriculture-based country like India. Being a predominant asset the use of groundwater, primarily for irrigation and for various development activities over the years has adversely affected the ground water regime in many parts of the country. This has in turn led to an emergent need for comprehensive and realistic information pertaining to various aspects of groundwater resources available in different hydro-geological settings through a process of systematic data collection, compilation, data generation, analysis and synthesis which together brings in the concept of Aquifer Mapping and Management Plan.

The primary objective of the Aquifer Mapping can be specified as “Know your Aquifer, Manage your Aquifer”. Systematic mapping of an aquifer incorporates activities such as collection and compilation of available information on aquifer systems, demarcation of their extents and their characterization, analysis of data gaps, generation of additional data for filling the identified data gaps and finally, preparation of aquifer maps at the desired scale.

The two major objectives of the aquifer mapping is the delineation of lateral and vertical disposition of aquifers and their characterization on 1: 50,000scale in general and further detailing up to 1: 10,000 scale in identified priority areas and the quantification of ground water availability and assessment of its quality to formulate aquifer management plans to facilitate sustainable management of

ground water resources at appropriate scales through participatory management approach with active involvement of stakeholders.

NAQUIM 2.0

Building on the experience of the NAQUIM 1.0, CGWB has initiated the NAQUIM 2.0 activities with the following broad objectives providing information in higher granularity with a focus on increasing density of dynamic data like ground water level, ground water quality etc. Providing issue based scientific inputs for ground water management up to panchayat level putting in place a strategy to ensure implementation of the recommended strategies. Major priority areas identified for detailed studies under NAQUIM 2.0 include i) Water Stressed Areas ii) Coastal Areas iii) Urban Agglomerates iv) Springsheds v) Industrial/Mining Areas v) Command Areas vi) Deep-seated Aquifers vii) Auto-flow Areas viii) Poor Ground Water Quality Areas etc. Considering that the deliverables will be different for different priority areas, it is planned to develop priority area specific outputs.

Priority Area based Specific Output:

As per the priority area category, under Poor Ground water quality area, Parts of Salem district had been assigned to carry out National Aquifer mapping 2.0 (Naquim 2.0) on village level. Naquim 2.0 is prepared by integrating hydrogeological information such as geology, geophysics, hydro-chemistry and hydrology and analysed to characterise the quality, quantity and sustainability of ground water in aquifers.

To study the poor ground water quality and Ground water contamination issues, Parts of Salem district had been taken and the major issue is high fluoride concentration in ground water in the study area. Therefore, CGWB has preferred the study to carryout the identification of alternate sources of ground water in Fluoride affected villages of the three blocks namely Veerapandi, Omalur and Kadayampatty.

In order to understand the depth to water level in the area 75 Key wells has been established and water level has been monitored from the key wells during pre and post monsoon. 35 Nos of bore well has been explored at different depths and 125 nos of Vertical electrical soundings (VES) has been carried out to delineate the aquifer geometry in the study area. Ground water samples have been collected with close inervels and aproximately it covers one ground water sample per Sq. Km from both the Aquifers. In total 563 nos of Ground water samples have been collected from each and every habidation from a dug well, bore well and in Hand pumps, to analyse the presence of fluoride in the study area. The ground water

samples have been analysed and repeated groundwater sampling has been collected in places wherever high fluride level in ground water are showned.

The study aims to identify the alternate sources of drinking water in the aquifer where it has higher concentration of Fluoride in Veerapandi, Omalur and Kadayampatty block of Salem district. The outcome of finding and management plans will be shared to the state Government, farmers and stake holders.

1.1 About the study area

The study area is a part of Salem district of Tamil Nadu state. Veerapandi, Kadayampatty and Omalur are the three blocks taken into study under NAQUIM 2.0. The Area covered is 675 Sq.km and the mappale area is 550 sq.km, which is predominantly agriculture area. The drained by Bhavani River basin and its tributaries. Veerapandi block is having 25 village panchayath and located at Southern side of Salem district adjacent to Namakkal district, Veerapandi has a total population of 16953 peoples. Kadayampatty block is having 17 village panchayaths and situated along the western side of Salem district adjacent to Dharmapuri district, Kadayampatti has a total population of 11390 peoples. Omalur Block is having 33 village panchayaths and located in middle of both Blocks. The study area is highly water stressed and Fluoride concentration is higher in most of the villages of 3 Blocks in both shallow and deeper Aquifers. Omalur has a total population of 16279 peoples. So total population of the area is 506794 and population density is 751.The location map of study area presented figure No.1.1

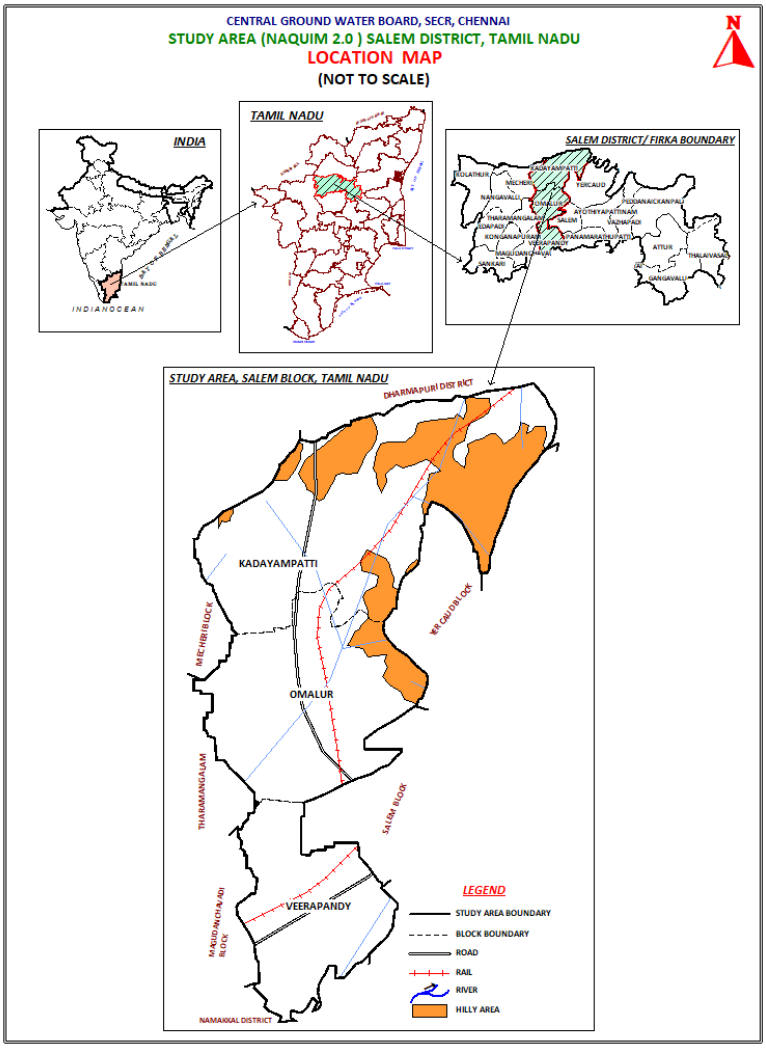


Figure 1.1 Location map

1.2 Rainfall and Climate:

The study area receives the rainfall under the influence of both southwest and northeast monsoons. The northeast monsoon chiefly contributes to the rainfall in the area. The normal annual rainfall over the district varies from about 800 mm to 900 mm. The weather is pleasant during the period from November to January.

1.3 Drainage:

Drainages indicate closeness of spacing of channels as well as nature of surface material, the drainage also indicates the relative run off of an area. Places where the drainage is high, runoff would be

more and of less drainage run off would be less. The Study area falls in Bhavani River basin and the area drained by Sarabanga and Tirumanimuttar which are important tributaries of Bhavani River and originate in the Shevroy hills and drained through study area. The drainage type of the area is characterized by dendritic pattern. The drinages are high in northe eastern portion and limited towards south western side. The water shed of study area is covered part of Noppur, Sarbanga and Tirumanimuttar. The drainage map is represented in Fig.1.2

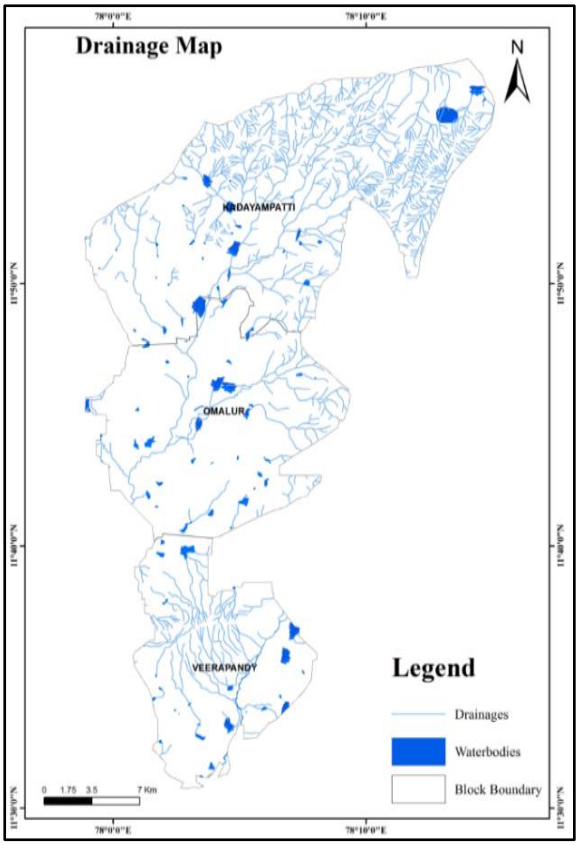


Fig: 1.2 Drainage map of study area

1.4 Geomorphology:

Geomorphology indicates the landform in that particular area, the relief, slope, depth of weathered material, types of the weathered material and the overall assemblage of different landforms play an important role in defining the groundwater regime more particularly in hard rock areas and as well in unconsolidated formations.

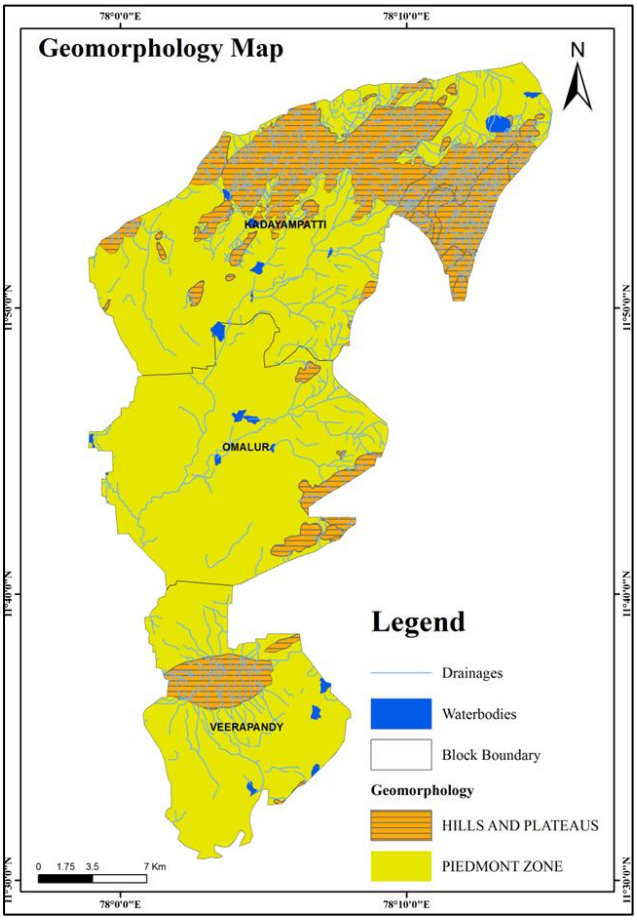


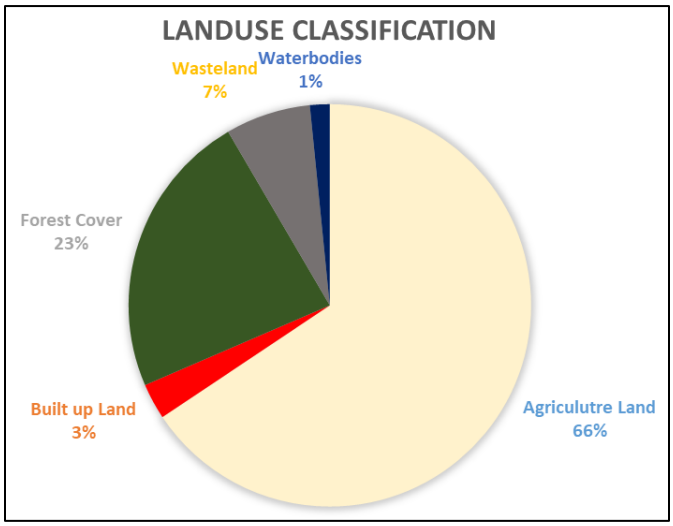
Figure 1.3 Geomorphology map of study area

The area forms part of the upland plateau region with has many hill ranges, hillocks and undulating terrain with a gentle slope towards south west. The prominent geomorphic units identified in the area are 1) Hills and Plateau, 2) Pediment Zone. The important hill ranges in the study are Yercaud hills and Kanjamalai hills. The Geomorphology map is given in Fig 1.3

1.5 Landuse

Land use/land cover plays an important role in the occurrence and development of groundwater, as per the land use classification most of area covered by agricultural land followed by Urban, waste lands are seen where the most of foot hills area are became barren due to shortage of rainfall and water. The landuse map is represented in Fig.1.4.a and 1.4 b Landuse covered by Percentage Wise Area is given below in the table and Pie chart.

Table:1.1 Land use classification percentage wise of study area



Landuse classification	Area Covered in Sq.Km	%
Agriculutre Land	443	66%
Built up Land	19.5	3%
Forest Cover	155.6	23%
Wasteland	46.2	7%
Waterbodies	10.7	2%
Total Area	675	100

Fig. 1.4 a. Pie chart of Land Use Classification

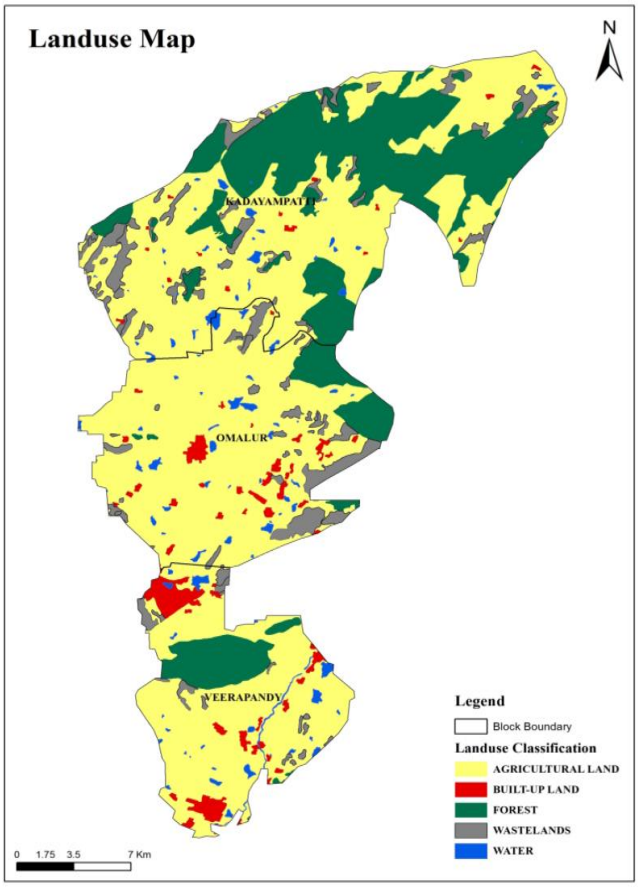


Fig 1.4.b Land use map of study area

1.6 Irrigation:

Dug wells and Bore wells are the major source used for irrigation purposes in the study area, around 30% area irrigated by micro irrigation (drip & Sprinkler irrigation). Other places flood/ conventional method is adopted.

1.7 Cropping Pattern:

Agriculture is the main stay in the entire study area. The total irrigated area of the study area is 443 sq.km with main water intensive crops irrigated are Paddy, sugarcane and banana. If monsoon fails the farmers start to cultivate less water intensive crops like maize, Tapioca, include cotton, ragi etc., and other minor crops are turmeric, flowers and vegetables. In Omalur block Sugarcane cultivated mainly depending on bore wells.

1.8 Geology:

The study area is underlain by Archaean Crystalline formations with recent alluvial and Colluvial deposits of limited areal extents along the courses of major rivers and foothills respectively. Weathered and fractured crystalline rocks constitute the important aquifer systems in the area. The study area is occupied by Archaean Formation comprising mainly of Gneiss/ Granitic Gneiss, Charnockite. The Ultramafic rocks Dunite found along with Magnesite in Middle Eastern side of the study area. The Alkaline rocks isolated bodies sporadically distributed in North and North Western part of the study area.

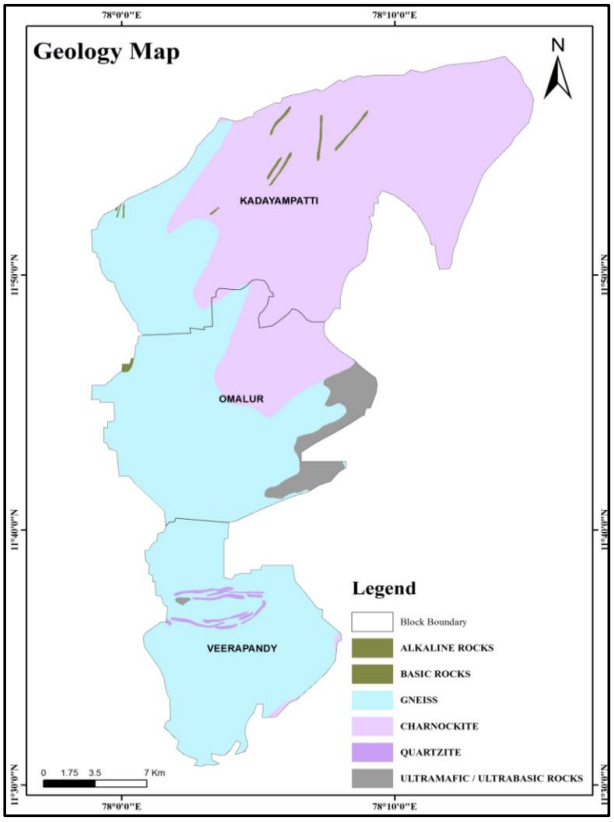


Fig 1.5 Geology map of study area

Biotite Gneiss and Granite Gneiss is present in Attayampatty, Chinna seeragapadi panchayath of Veerapandi block and Tholasampatty, Thindamangalam panchayath of Omalur block and Semmandapatty, Dharapuram panchayath of Kadayampatty Block with intrusion of Pyroxenite.Kanjamalai hills southern granulite terrain is located at central part (South side of Perumampatty and North of Kalparapatty side panchayath, Veerapandi block) of study area which is tectonically disturbed, Quartzo Feldspathic Gneiss, Pyroxene granulite are rock type with presence of banded magnetite quartzite.Pegmatite intrusions observed in Rakipatty, Ettimanickampatty, Kadathur, Periya seeragapadi, Perumagoundampatty and Kalparapatty panchayath of Veerapandi block. In Bommiyampatty, Kanavaiputhur, Nadupatty, Umbilikampatty, Gundukkal and Thinnapatty panchayath of Kadayampatty block massive Charnockite is occupied as hillocks. The Geology map given in Fig.1.5.

1.9 Hydrogeology:

Ground water occurs under phreatic conditions in the weathered mantle and under semi-confined conditions in the fractured zones and is developed by means of dug wells, shallow bore wells. Granite Gneiss, Charnockite, Granites and other associates represent the hard consolidated crystalline rocks.

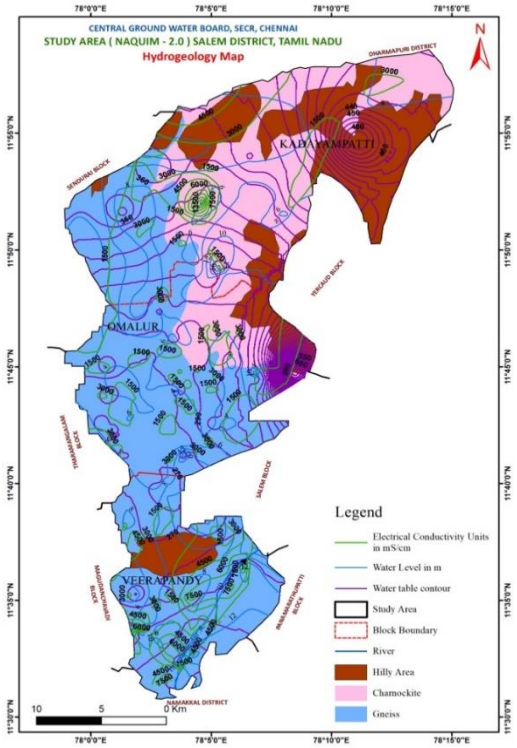


Fig.1.6 Hydrogeology map

They are important from ground water development point of view in the hilly terrain. These rocks are devoid of primary porosity but are rendered porous and permeable with the development of secondary openings by fracturing and their interconnection.

Table - 1.2. Geological succession of the study area

S.No	Group	System	Lithology	Groundwater relevance
1	Azoic	Archaean	Charnockites, Granites, Gneisses.	Weathered and Fractured Aquifer units.

2.0 Priority Types & Issues in the Study Area:

The studies under NAQIUM 2.0 are proposed based on issues specific and will be undertaken in prioritized focus area. The study area has been identified based on Ground Water related issues, after convergence meeting held at District Collectorate, Salem Chaired by Additional Collector (Development) officers and Engineers from PWD, TWAD and Rural Development and Health Department officers.

The following issues were discussed during the convergence meeting:

1. Drinking Water scarcity in critical and Over-exploited firkas (5 firkas are under OE and 1 firka under Critical category)
2. Declining of Ground Water level
3. Limited Aquifers thickness
4. Water Quality - High EC and Fluoride

It is to decided to study the areas falling in three blocks namely Veerapandi, Omalur and Kadayampatti blocks since, the study area is falling in semi-arid climate, Arid and semi-arid regions are generally more likely to contain high fluoride groundwater on account of higher pH and alkalinity as well as longer residence times. The irrigation in the area is mainly depends on ground water.

2.1 Water Stressed Areas:

Most of the villages in three blocks are water stressed, drinking water scarcity is the major issue facing by the people, and local administration is managing to supply with an available Cauvery water for drinking, which is not regular basis, some villages are receiving drinking water supply in fortnightly or once in an around ten days' interval, village administration is supplying water from local ground water sources neither dug well nor bore well irrespective of quality standards. It is also observed that many villages blending local source water with drinking water due to inadequate quantity to supply to villages. The study area covered by 6 firka completely, among 6 firka 5 firka are categorized as OE and remaining one as Critical.

The study area has 751 persons per sq.km density which is higher than State population density of 555 per sq.km. Three block has 75 village panchayath and many growing town namely Veerapandi, Seeragapadi, Attayampatty, Elampillai, Omalur, Muthunayakanpatty, Karuppur, Kamalapuram, Kadayampatty, Semmandapatty, Chinna tirupathy, Danishpet and Tivattipatty. Population density and

increasing demand of drinking water in the area is inevitable. Further, domestic usage depends on ground water sources where piped water supply is irregular & inadequate.

Table 2.1 Water Demand and Water supplied and Data gap

Sl. No	District	Block	Population	Water demand in L	Water supply in L	Gap in L
1	Salem	Veerapandi	145095	7980225	4134590	3862755
2	Salem	Omalur	233225	14060580	10658200	3402380
3	Salem	Kadayampatty	128474	7048570	5275070	1695000
*Total			506794	29089375	20067860	8960135

(*Source: DRDA, Salem Govt. of Tamil Nadu)

2.2 Ground Water Contamination:

Ground water contamination is observed in locations near by Tirumanimuttar River. Turbidity, Odor, High EC and pH due to Salem city discharge its effluents (sewage waste industries and urban waste) into Tirumanimuttar River. Ground water sources are contaminated in Uthamasolapuram, Pulavari, Veerapandi, Akkarapalayam panchayath directly influenced by Tirumanimuttar River in the area. Sarabanga River is also contaminated due to anthropogenic activity. Urban and minor industries effluents are the important factors which affects ground water

2.3 Dynamic Ground Water Resources:

Study area comprises of six firkas namely Veerapandi, Vembadithalam, Karuppur, Omalur, Kadayampatty and Semmandapatty are fully covered in the study area and the smaller portions are covered by four firkas namely Yercaud, Tharamangalam, Tirumalaigiri and Ernapuram. Most of the Firkas are categorized into Over exploited caterogry and one Firka in Critical category and the parts of Yercaud comes under Safe Category. The Dynamic Ground water resouces categorization map of the study area is shown in Fig.2.1

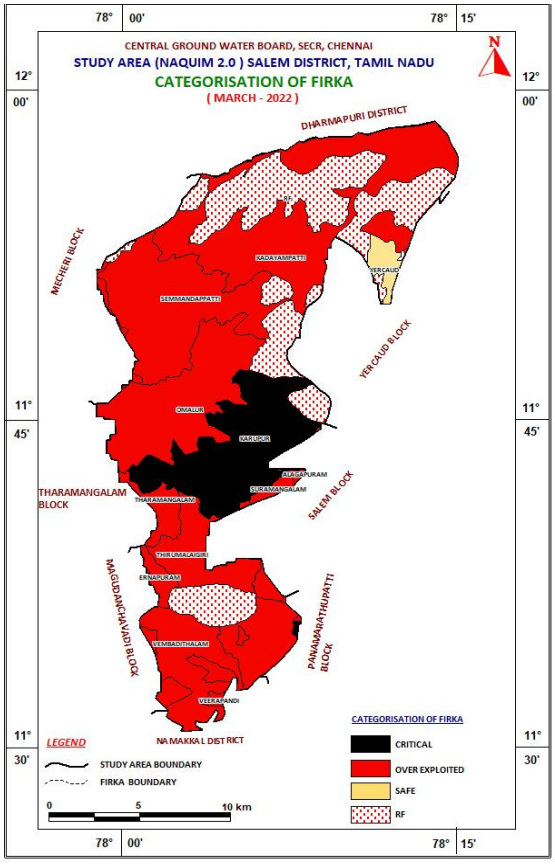


Fig.2.1 Stage of Ground water categorization map

2.4 Fluoride Issues:

Fluoride is one of the common problems in semi-arid climate region, the most common fluoride-bearing minerals are fluorine, apatite and micas is main constituent to rock type present the area viz. Biotite Gneiss, Granite Gneiss and Charnockite. High fluoride in ground water due to long residence times in the aquifer. Further, Use of phosphates fertilizers exacerbates the condition of Fluoride content in Ground water. In general, small amount of fluoride is good for dental health, however, exceeding the permissible limit causes dental fluorosis, skeletal fluorosis and crimping fluorosis. There are several factors that are responsible for the release of fluoride into groundwater. The concentration of fluoride in waters is controlled by the solubility of the main fluoride-bearing mineral fluorite (CaF_2); therefore, waters that are rich in sodium (Na^+), potassium (K^+), chloride (Cl^-), and calcium (Ca^{2+}) tend to have high fluoride concentrations. Fluoride in the groundwater is derived from the weathering and subsequent leaching of fluoride-bearing minerals in the rocks and soil, like fluorite (CaF_2), cryolite

(Na_3AlF_6), fluocerite (CeF_3), yttrofluorite (Ca, Y) (F, $O)_2$, villianmite (NaF), sellaite (MgF_2), fluorapatite ($Ca_5(PO_4)_3F$), etc.

2.5 Previous Studies:

- Central Ground Water Board has carried out Systematic Hydrogeological Survey in 1981-83
- Ground Water Management studies carried out in 1990-92 & 2001- 03.
- The ground water exploration for delineation of aquifers and for assessing their yield characteristics by drilling of exploratory wells during 1990-91 and 2004-05.
- CGWB is monitoring the groundwater regime for the changes in water level and water quality through 16 dug wells and 02 piezometers. Water samples are collected during May for determining the changes in chemical quality of groundwater.
- NAQUIM study taken up in the district during XII th Plan (2017-18).
- Central Ground Water Board, Salem District Ground Water Brochure Dec 2008 highlighted that around 22% of water samples contain higher concentration of Fluoride more than 1.5mg/l in parts of Attayampatty (Veerapandi block). Ground water division of public work department, Government of Tamil Nadu, Tamil Nadu water and Drainage Board (TWAD) studies about Fluoride.

Few articles by individual:

- An article in National Library of Medicine of "prevalence of dental fluorosis and its associated factors in Salem district" explained about School children's affected by Dental Fluorosis due to drinking water (Ramesh et al., 2014, Journal of Orofacial Sciences 6(1): p 37-40, Jan–Jun 2014. | DOI: 10.4103/0975-8844.132584)
- An article in Research Gate on Distribution of fluoride in the ground water of Salem and Namakkal districts, Tamil Nadu (P. Periakali et al., 2001)
- An article in Semantic scholar on Geochemistry of Fluorides in groundwater, Salem district, Tamil Nadu, India (K. Srinivasamoorthy et al., 2008, http://www.hydroweb.com/protect/pubs/jeh/jeh2008/moorthy.pdf)

3.0 Objective of the Present Study:

The study area has 122 villages comes under 75 village panchayath of three blocks namely Veerapandi, Omalur and Kadayampatty, Salem district. From the field observation it is observed that most of villages are facing shortage of drinking water supply / piped water which are available fortnightly or around once in a week (Table 2.2: DRDA Salem, water supply and demand data). The local administration is supplying water from local sources either directly or mixed with combined water supply scheme. Hence It is necessary to identify drinking water sources with either Fluoride free or within permissible limit. Presence of Fluoride range in shallow aquifer and deeper aquifer identification will be appropriate to meet the need of public. The follwings are the objective of present study

- Demarcation of village panchayat wise aquifer disposition & its characteristics
- Village panchayat wise Ground Water Quality Scenario
- Identification of Fluoride free potential aquifers
- Development of Sustainable and alternate drinking water supply plan

3.1 Approach & Methodology (Data Collection, Generation and Integration)

The existing data on Geology, Geophysics, Hydrogeology and Hydrochemistry generated under various studies by CGWB such as Systematic Hydrogeological studies, Groundwater Management studies, Exploratory drilling, Microlevel hydrogeological studies and special studies have been utilized for data gap analysis in conjunction with the data collected from various State and Central government departments. The thematic layers on drainage, geomorphology, land use and land cover were reproduced from the data obtained from concerned State departments. The existing data on various themes analysed for finding the data gaps is given and the results of the data gap analysis are described in detail in subsequent sections. The data gaps analysis carried out helped to generate data from new data-collection activites such as exploration drilling, water level measurements and groundwater quality analysis. By analysising the existing data and the data generated, regional hydrogeological maps, thematic maps, water quality maps, cross-sections, 2-D and 3 –D aquifer dispositions and potentiometric maps were generated.

Table 3.1 The data availability in the study area

Sl. No	Theme	Data availability
1	Groundwater level data	14 nos.
2	Piezometers	2 nos.
3	Groundwater quality Data	Dug wells-14 nos. Bore wells -2 nos.
4	Geophysical Data	51 (VES)
5	Land use and Land Cover	Available
6	Drainage	Available
7	Geology	Available
8	Soil	Available
9	Climate Data	Available

3.2 Data Collection and Data Generation

After the data gap analysis, key wells establishment, water samples collections and other hydrogeological data are collected. In aquifer mapping studies, periodical data pertaining to groundwater levels, quality, pumping tests were conducted during aquifer mapping studies apart from water sample collection to assess the groundwater quality. In addition, Geophysical data has been generated through conducting Geo electrical soundings after evaluation of data gap analysis. The data collected are synthesised and analysed for aquifer mapping studies.

3.2.1 Hydrogeological data

The periodical monitoring of ground water level implies the groundwater recharge and discharge (natural and manmade) occurring in the aquifer systems. It also reveals that the interaction between surface and sub-surface water systems. In the study area, there are 14 numbers of Dug wells and 2 numbers of Piezometer are monitored periodically by the Central Ground Water Board, for knowing the hydrogeological conditions of the area, the CGWB wells are being monitored in four times (January, April, August and November) in a year. Other than CGWB the State Ground Water Department (under WRD) is doing the monthly water level monitoring, 17 number of dug wells and 8 number of Piezometers are being monitored by the department. TWAD have 4 numbers of dug wells and monitored twice a year. The locations of water level monitoring wells of CGWB and State Govt. in the area is listed in Table 3.2.1. The historical data from these stations have been used for data gap analysis in addition to existing wells. 75 numbers of key wells were established for intensive water level monitoring.

Table 3.2 Ground Water Monitoring Wells of CGWB and STATE GOVT. Dept.

Name of Block	CGWB			STATE GOVT. (PWD &TWAD)		Total	
	Dug well	Piezometer	Key wells established	Dug well	Piezometer	Dug well	Piezometer
Veerapandi	12	1	25	3 +1*	1	16	2
Omalur	1	1	33	8 +1*	4	10	5
Kadayampatty	1	-	17	6 +2*	3	9	3
Total	14	2	75	21	8	35	10

*TWAD Ground water monitoring wells

3.2.2 Hydrochemical data

The historical data of 16 locations water quality in the area is available from water level monitoring stations of CGWB. Water sampling is being done every year from these wells during pre-monsoon period (May). The data gap analysis has been carried out to find out the adequacy of information. During pre-monsoon May 2023 75 number of dug wells and 75 number of bore wells water samples were collected and anlysed, it had decided to intensify the closer interval of water sample collection. Accordingly, 282 numbers of Dug wells, 273 numbers of Bore wells and 8 number of Hand pumps water samples were collected during October 2023. During post monsoon Feb 2024 90 numbers of samples are collectected in which 48 Dug wells & 42 Bore wells. The study area water level has been monitored during pre-monsoon season May 2023 and post- monsoon season Feb 2024. 75 numbers of key wells were established to monitor water levels representing each and every village panchayat.

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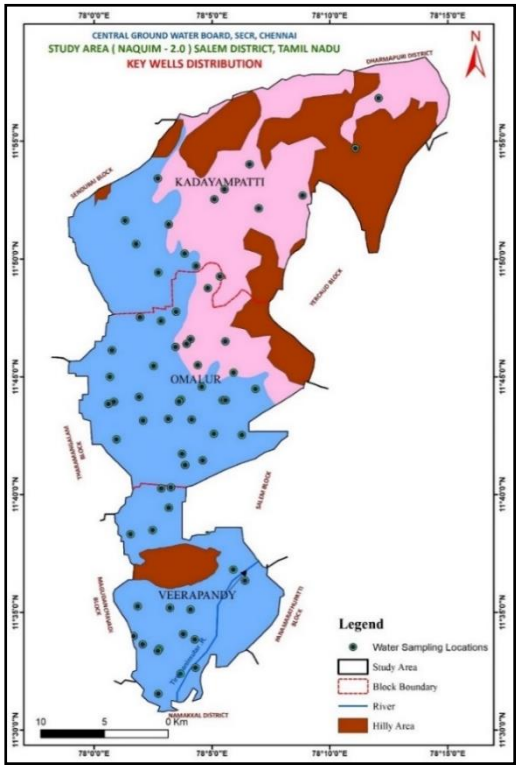


Fig. 3.1 a Key Well Locations – May 2023

The CGWB NHS data, State Govt. PWD & TWAD Monitoring data accompanied. Ground water sampling locations during premonsoon and intensified locations are given in Fig 3.1a and 3.1b

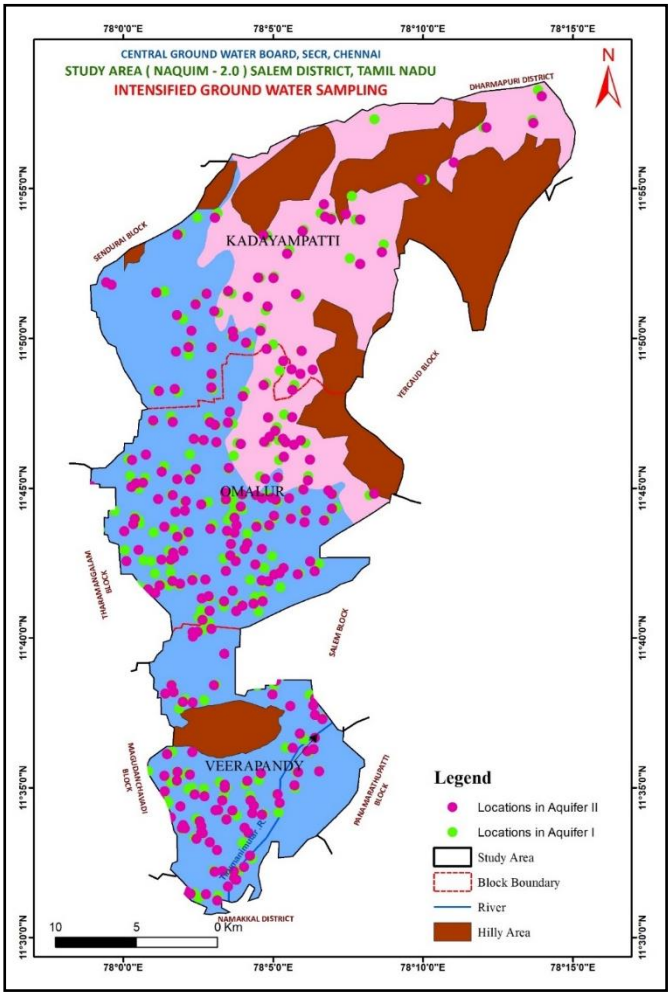


Fig.3.1b Intensified key wells Location

Existing 16 numbers of water quality monitoring stations has been strengthened during May 2023 by addition of 75 water quality locations situated in each and every village panchayat of three blocks. Based on chemical analysis, it had decided to concentrate habitations wise water sample collection for precise conclusion. Accordingly, 282 number of Dug well water sample, 278 numbers of Bore well water sample and 8 number of Hand pump water sample has been collected and analysed. Further, Post-monsoon season 48 numbers of Dug well water sample and 42 numbers of Bore well water sample has been collected. Total number of water samples collected for Fluoride analysis is is presented in table 3.4

3.2.3 Geophysical data

The geophysical survey was carried out in the study area by using Vertical Electrical Sounding (VES) in Schlumberger and Pole-Dipole methods. A total of 127 VES survey was carried out in three blocks of Salem district namely, Veerapandi, Omalur and Kadayampatty covering 127 villages. The aquifer geometry could be refined from the interpretation of geophysical data in conjunction with the available groundwater exploration data. Based on the study data gap of 127 numbers of Vertical Electrical Sounding sites and 87 numbers of TEM survey sites were identified. The location map of VES and TEM survey conducted in the study area is shown in Fig.3.2

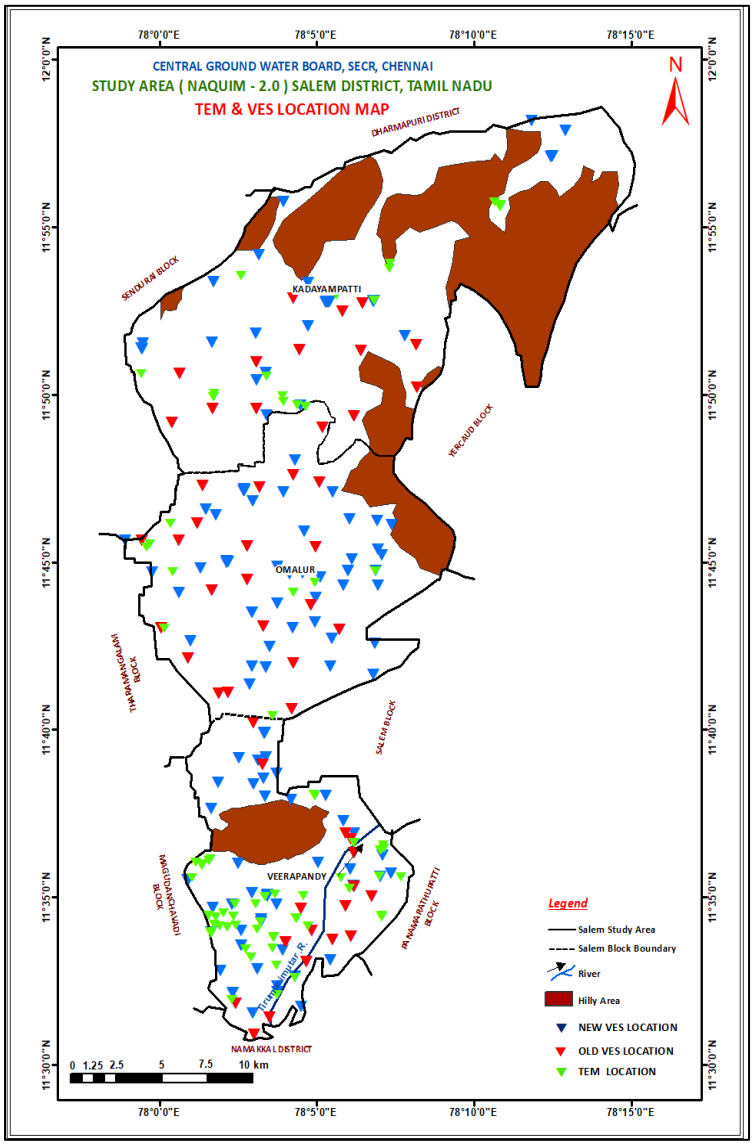


Fig. 3.2 VES and TEM location in the study area

3.2.4 Ground water Exploration

After analyse the existing ground water exploration data, the information like Ground water potential zones, Aquifer geometry, fracture zone depth, Soil & weathered thickness and aquifer characteristics are inferred. The exploratory drilling basic data from 7 exploratory wells and 2 Piezometers in the area could be used for data gap analysis and based on this study data gaps were identified around 25 additional exploratory wells and 10 piezometers. 25 exploratory wells and 10 piezometers constructed during 2023-24.

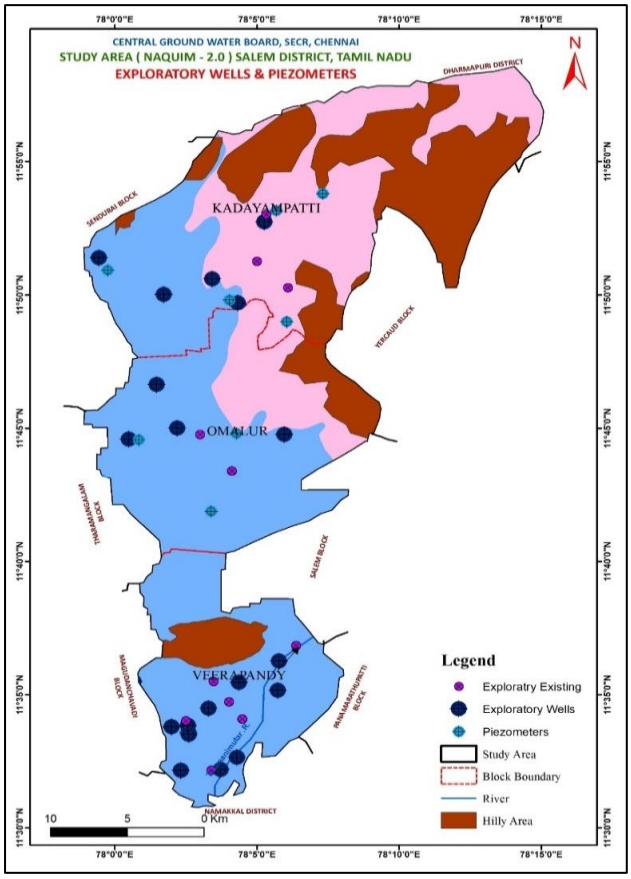


Fig.3.3 Locations of Exploratory wells and Piezometers

Table 3.4 Total number of water samples collected for Fluoride analysis

Water samples collection period	Dug wells	Bore wells	Hand pump	Total
Pre monsoon May 2023	75	75	-	150

Intensive samples Sep & Oct 2023	282	273	8	563
Post monsoon Feb2024	48	42	-	90
Total number of water samples collected for Fluoride analysis				803

4.0 DATA INTERPRETATION, INTEGRATION AND AQUIFER MAPPING

The NAQUIM micro level maps are prepared on the basis of the input generated from the synthesis and analysis of geological, geophysical, hydrological, hydrogeological, and hydro-chemical data. In the present study the aquifer disposition and aquifer characterization has been brought out mainly by analyzing the data from 30 number of lithological logs, 127 number electrical logs, 87 number of TEM, hydro-chemical data from NHS, previous literatures, additional water quality samples collected from field and inputs from the field investigations. Various aspects of the groundwater regime such as rainfall, soil, geomorphology, geology, aquifer geometry, aquifer characteristics, water levels, water resources and water quality were studied in detail and thematic maps prepared as part of the aquifer mapping.

a. Pre-Monsoon May 2023

The pre-monsoon water level monitoring has been carriedout during May 2023, It is observed that maximum number of wells is having water levels ranging from 5 to 10 m bgl. i.e around 56% of the monitored wells. Less than 2 m bgl are observed in 2 monitoring stations (2%), 40 number of Mmoitoring wells having water level ranging from 2 to 5 m bgl. it is about 31% of the monitored wells. 15 Wells are having water level betwenn 10 -20 m bgl, it is around 12% of the monitored wells. Monitoring well location and the depth to water level range map is shown in Fig.4.1a

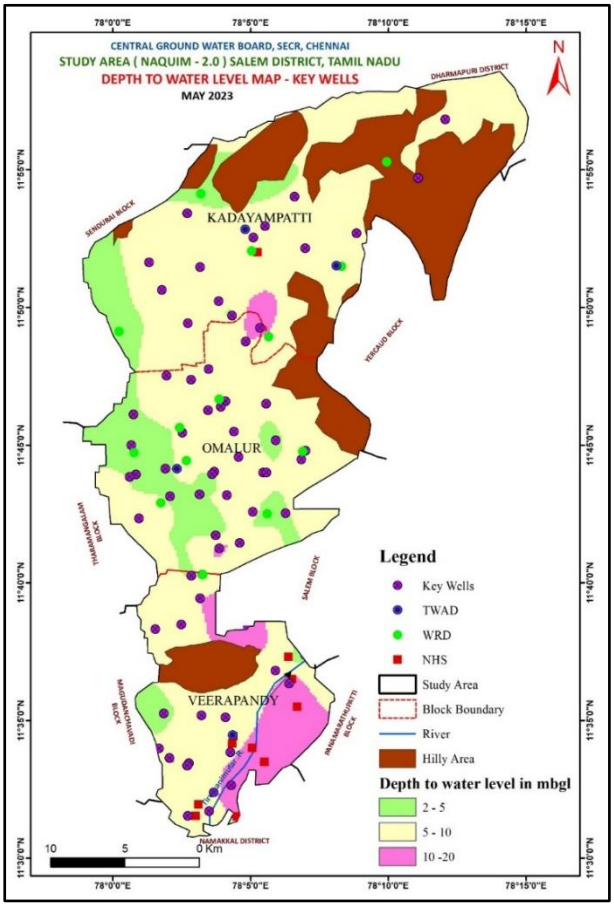


Fig. 4.1a Pre-Monsoon Depth to water level map May 2023

b. Post Monsoon January 2024

The post-monsoon water level monitoring has been carriedout during January 2024, It is observed that maximum number of wells are having water levels ranging from 5 to 10 m bgl. ie around 60% of the monitored wells. Less than 2 m bgl are observed in 1 monitoring stations (1%), 24 number of monitoring wells having water level ranging from 2 to 5 m bgl. it is about 19% of the monitored wells. 27 Wells are having water level betwenn 10 to 20 m bgl, it is around 21% of the monitored wells. Monitoring well location and the depth to water level range map is shown in Fig.4.1b

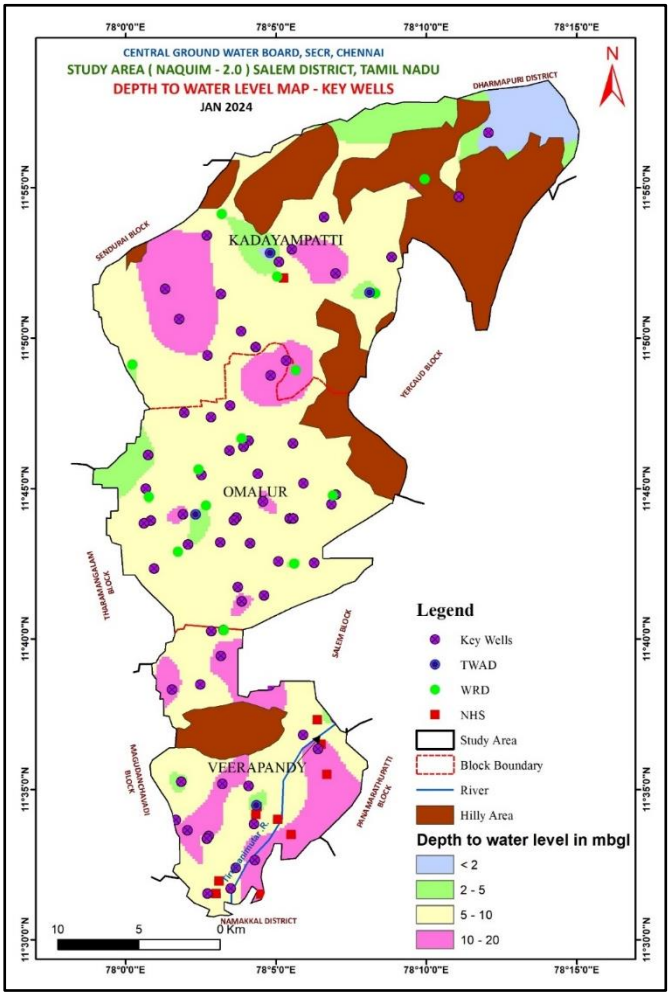


Fig.4.1b Post-Monsoon Depth to water level map Jan 2024

4.1 Gephysical Data Interpretation

The geophysical survey was conducted by employing collinear symmetrical four electrode Schlumberger configuration method with a maximum spread length of half current electrode separation (AB/2) of 350 m. The data was collected by using the resistivity meter Aquameter of Anvic Systems, Pune and SSR-MP-ATS of IGIS made. The data collected was interpreted by using the iterative technique of IPI2 Win by using computer till the best fit of the field curve

To delineate the overburden thickness and aquifer disposition by carrying out Vertical Electrical Sounding (VES). A total of 127 VES was carried out in Veerapandi, Omalur and Kadayampatty blocks in Salem

district. The interpreted results indicated 4 to 5 layered geoelectric layers with curves types of AA, HA, KH & HKH. Some of the VES curves are shown in the Fig. 4.1 and 4.2

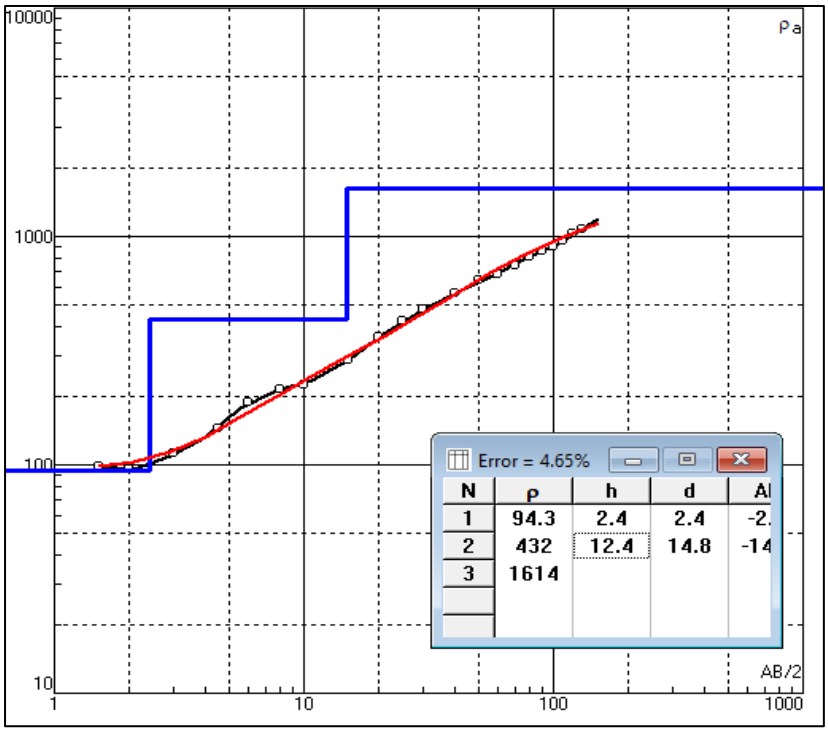


Fig.4.1 Interpreted results using IPI2WIN in Kadathur village

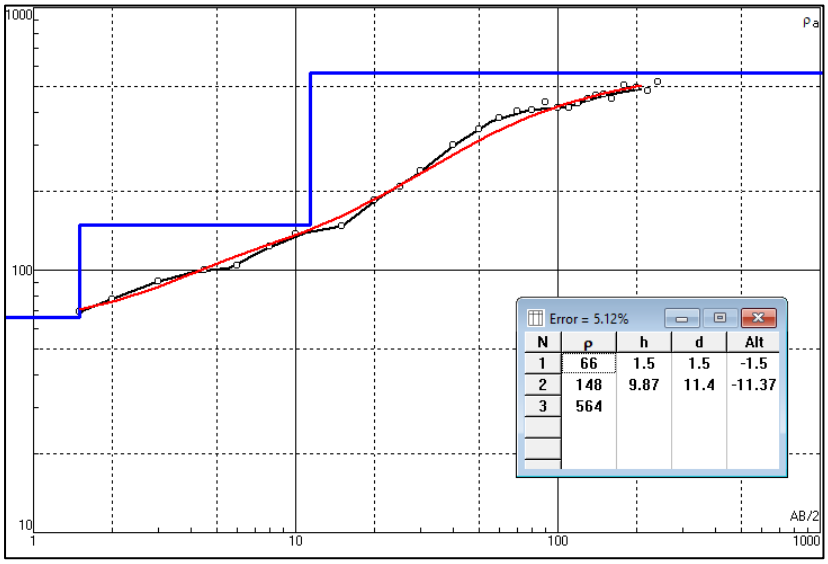


Fig. 4.2 Interpreted results using IPI2WIN in Kanavaipudur village

TEM survey

This TEM method utilizes the principles of electromagnetic induction to image and qualitatively assess electrically conductive subsurface objects and features. It is considered one of the simplest EM methods used to efficiently identify near-surface conductors. Automatic mapping water detector is based on the Earth's electromagnetic field as the field source, based on the difference in the conductivity of different underground geological structures, and by studying the variation law of the electric field components at different frequencies to study the geological structure and changes to find groundwater resources by scientific method. Changes in geological structure are displayed in real-time through multiple curves. Some of the pseudo sections obtained from TEM survey are shown in Fig. 4.3 to 4.6.

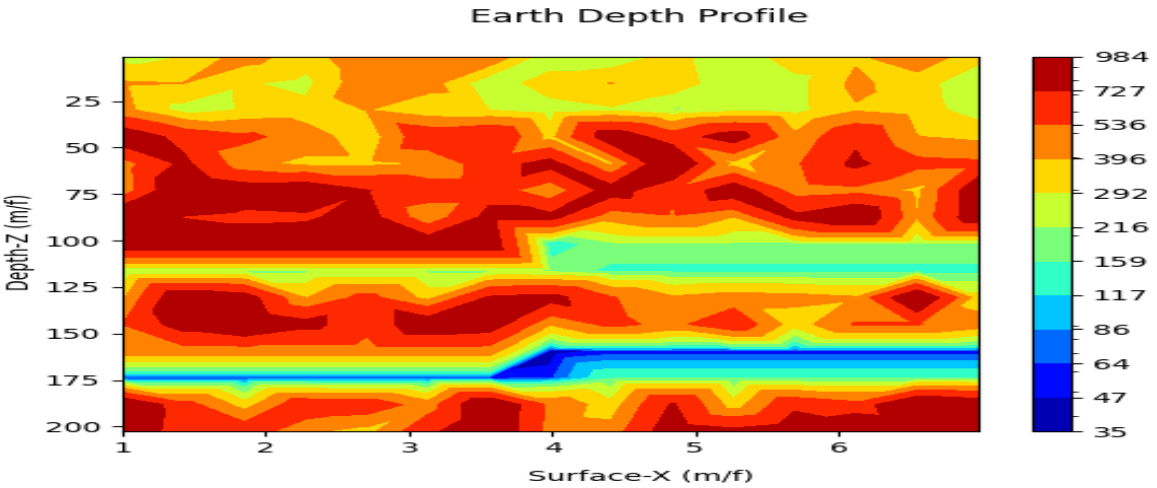


Fig. 4.3 TEM

pseudo section at Mattukaranur village

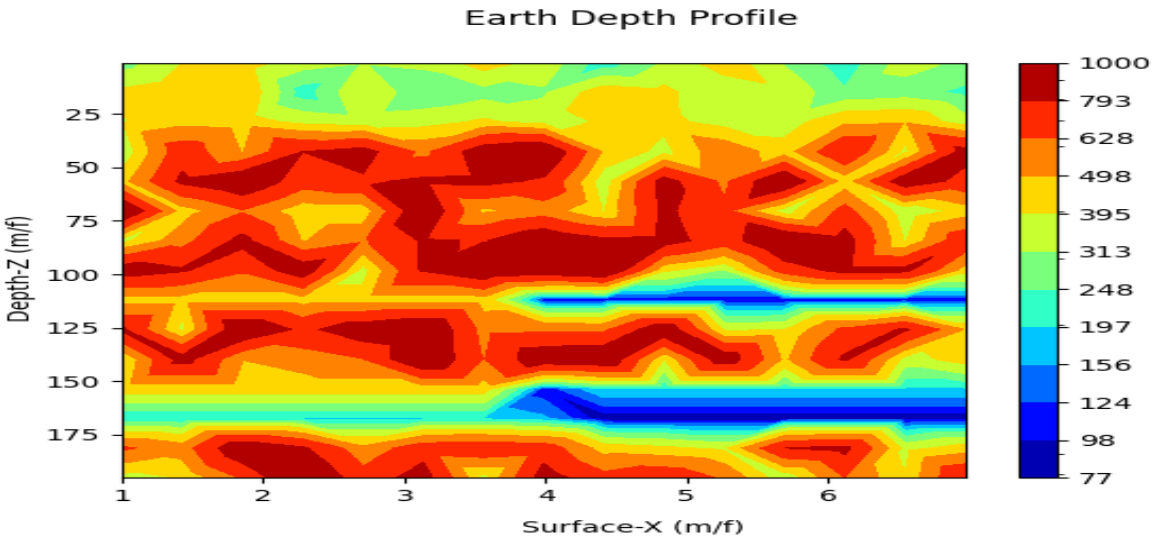


Fig. 4.4 TEM pseudo section in Pannapatti village

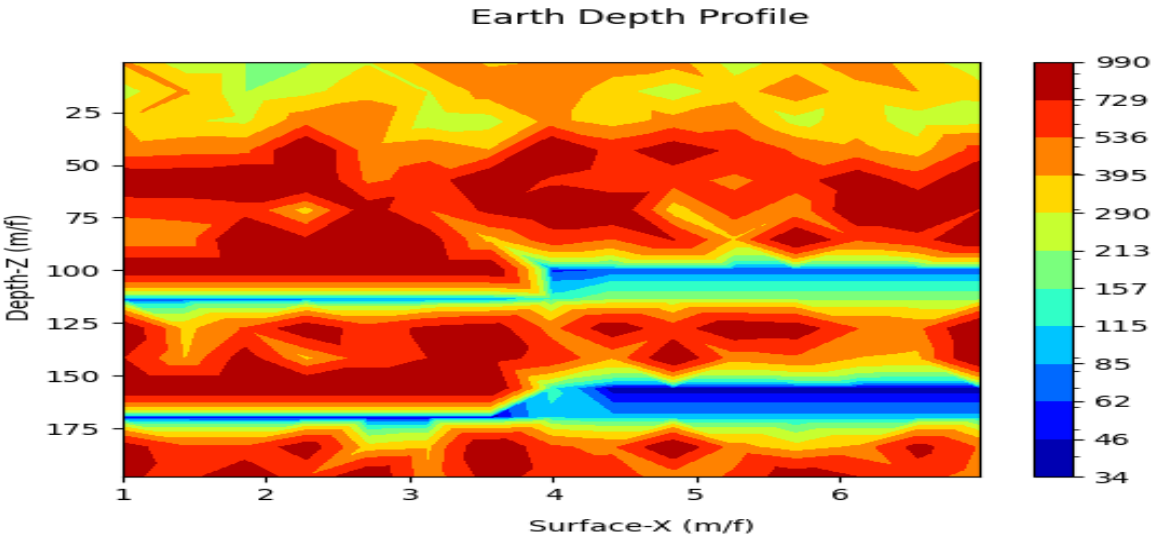


Fig. 4.5 TEM pseudo section at Ettimanickampatti village

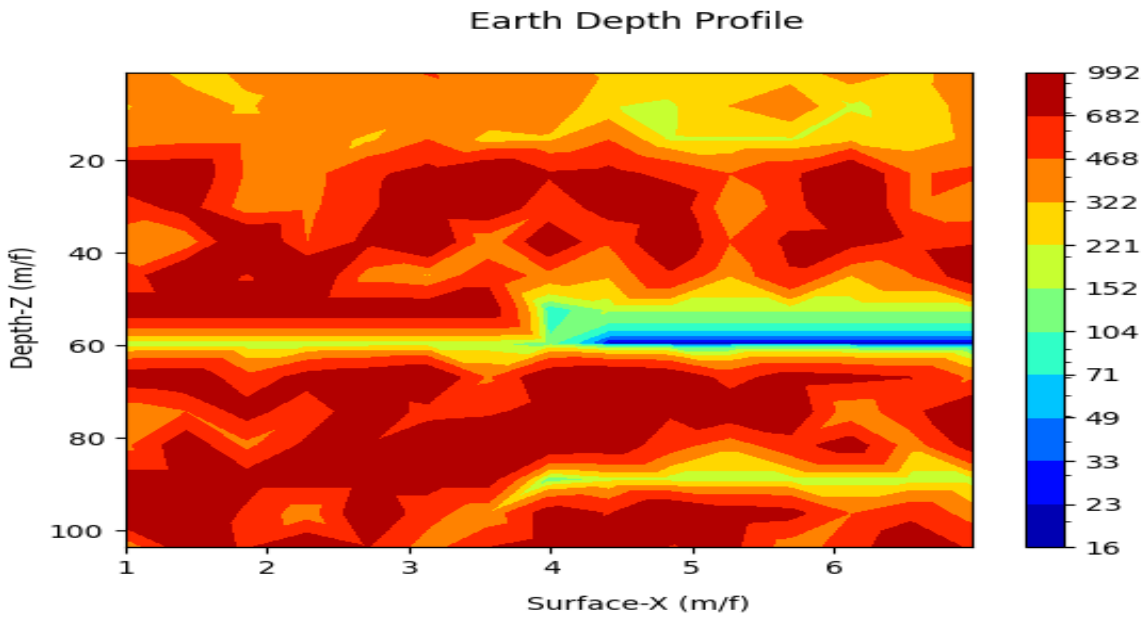


Fig. 4.6 TEM pseudo section at Veerapandi village

4.2 Hydrogeological Data Interpretation

The weathered zone and fracture system in crystalline rocks form the repositories of groundwater in the area. Groundwater exists under phreatic condition in shallow / weathered zone and under semi confined conditions in fracture systems. The weathered zone and the zone of fractures are interconnected and groundwater draft from the fracture system impacts the groundwater levels in the weathered zone. Hence, the area is considered to have a Single Aquifer system with two distinct horizons of different hydraulic properties such as;

1. Weathered zone with associated shallow fractures
2. Deeper Fracture zone

a) Weathered zone associated with shallow fractures

The shallow aquifers in the weathered zone form the phreatic aquifer system in the study area. Weathered Biotite gneisses is covering a major part of the area and some patches of area covered by weathered Charnockite and the weathered thickness varies highly in these formations. The occurrence and movement of groundwater in the weathered zone is mainly influenced by the depth of weathering and topography and generally groundwater follows the topography. Groundwater abstraction structures in this zone

include dug wells and shallow bore wells. The depth of dug wells ranges from 4 to 25 m bgl the water level ranges from 2.50 to 17 m bgl during the pre-monsoon period. During post monsoon period the water level ranges from 2.52 to 17.3m bgl. The diameter of the dug well ranges from 2.5 to 6 m. During pre-monsoon season, majority of the dug wells having very less yield. The yield of dug wells ranges from 3 to 7 lps and sustains 2 to 5 hours of pumping.

The yielding capacity of phreatic aquifers varies spatially and is related to the aquifer characteristics, rainfall received, surface water availability, and thickness of weathered residuum. The South east part of the area is having relatively high density of fractures/lineaments, the entire area receives moderate rainfall (average of 725 mm annually), and the study area is highly dependent on extraction of ground water for irrigation, Industrial and domestic purposes.

b) Deeper Fracture zone

The Deeper Fracture zone is moderately potential (high in very few locations) as the area is tectonically disturbed and groundwater exists there under semi-confined conditions. Since the area experienced several episodes of tectonic deformations, a large number of interconnected fractures developed which offer very good conduits and storage space for groundwater. The Central Ground Water Board has drilled 30 numbers of exploratory wells (including Piezometers) in the study area, the depth of the bore wells ranges from 50 m to 304 mbgl. The depth to fracture zones ranges from 15 m to 180 m bgl and the discharge ranges from 0.5 to 25 lps. However, most of the potential fracture zones occur within the depth of 120 mbgl. Bore wells located along the lineaments are yielding high compared to the wells located away from the lineaments.

c) Thickness of weathered zone

Based on the exploratory drilling data two aquifer zones were identified viz; the weathered zone (aquifer Zone-1) and fracture zone below it. Weathered zone includes the weathered formation and the shallow fractures and its thickness varies in the range of 1-18 m. The weathered thickness in the area varies highly as observed from exploratory drillings and the data have been used to elucidate the lateral and vertical changes in weathered zone. The information from 30 bore wells and from 127 number of VES & 87 number of TEM data have been analyzed for understanding the spatial variations in the thickness of weathered zone and the contour map depicting the same is given in Fig.4.7a The weathering

thickness is relatively shallow in the Northern part of the area. Deepest zones of weathering are observed in the central and southern part of the area.

The thickness of weathered zone Aquifer I in the district ranges from 4.5 to 25 m with an average thickness of 14.5m. Aquifer II fractures zone thickness ranges mostly 46 m to 200 m. maximum possibility of set of 3 to 4 fractures may encountered and rare occasion Nil fractures also possible. Yield ranges from 750 to 9000 lph with an average of 3000 lph in Aquifer I and yield ranging from 300 to 9500 lph in Aquifer II. The sustainability of the Aquifer I is 2 to 4 hrs and the Aquifer II is 3 to 5 hrs. Fractured Gneiss/Granitic Gneiss is an important water bearing source in the area. Groundwater is found to occur under phreatic condition in the weathered zone. The weathered zone map of Aquifer I and Aquifer thickness map of Aquifer-II were prepared integrated with Exploration and Geo physical data and presented in Fig. 4.7a and 4.7b.

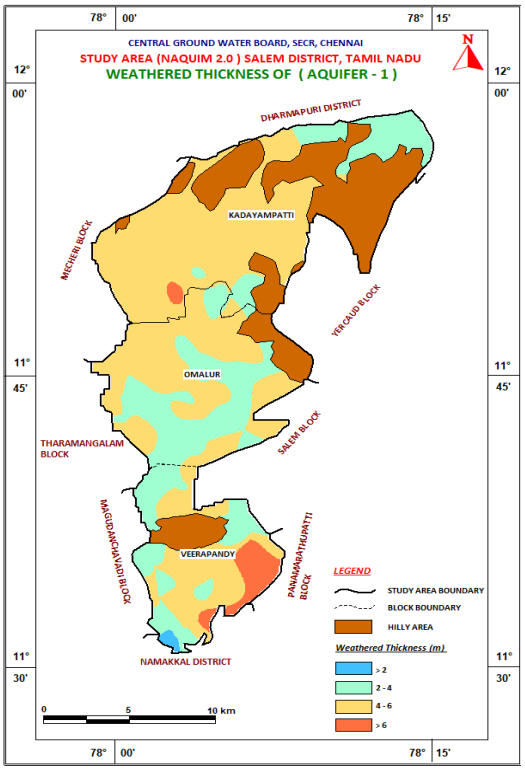


Fig: 4.7 a. weathered thickness of Aquifer-I

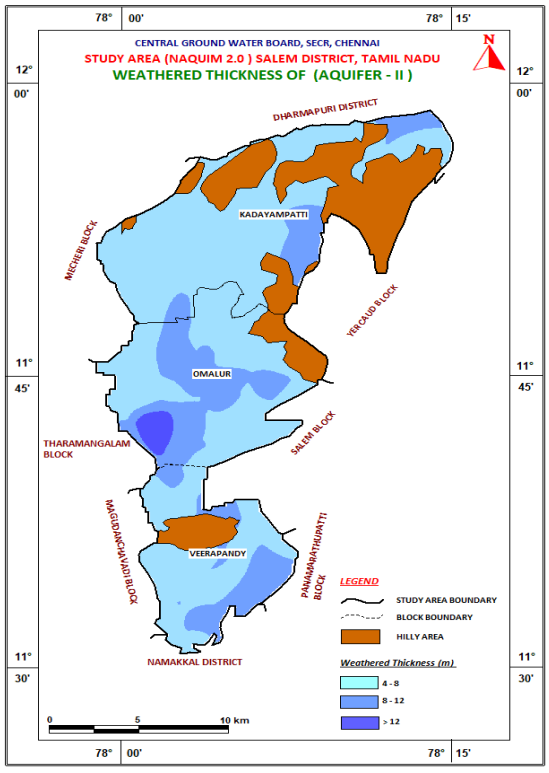


Fig: 4.7 b. Thickness of Fractured Aquifer-II

d) Fracture Aquifer Geometry

From the analysis of 30 number of bore well data, including 8 piezometers, the information extracted and prepared the 2D & 3D diagram. It shows relatively deep weathering in the southern and eastern part of the area. The hard rock below the weathered zone consists of massive formation with fracture zones at varying depths. The fracture zones are encountered in the depth range of 15-180 m in the exploratory wells representing different rock formations with significant changes in yield and aquifer characteristics. The Biotite Gneiss, Granite Gneiss is present in the South and Central part of area, Charnockite is found in the North Eastern part pf study area. They are confined to Semi-confined in nature with a high frequency of occurrence of potential fractures within 180 m depth. It is a general practice in the area to reach deeper drilling around 350m bgl, since the area possesses multiple fractures with the expectation of augmented yield or for long survival of wells. 2 D & 3 D view of the Aquifer system is shown in Fig.4.8a and 4.8b

e) Fracture Analysis:

There are 35 wells has been explored in the studya aera, drilling sampes has been collected for every 3 m interval during drilling and the litholog samples has been analyzed thoroughly. It is observed that there are 44 number of fractures has been encountered from the 35 exploratory wells. Most of the fractures ie. 20 Fractures are encountered with in 50m depth, 8 Fractures are encountered in 50 m to 100 m depth range. 9 fractures are encountered in 100 to 150m depth range and 7 fractures are encountered in 150 to 200 m depth range, Depth wise fractures encountered and percentage details are given below in the table 4.3.

Table 4.3e**.** Fracture Analysis

Depth of well	No. of Fractures Encountered	Fractures Encountered %
Up to 50 m	20	46
50 - 100 m	8	18
100 -150 m	9	20
150 - 200 m	7	16
Total Fractures Encountered	44	100

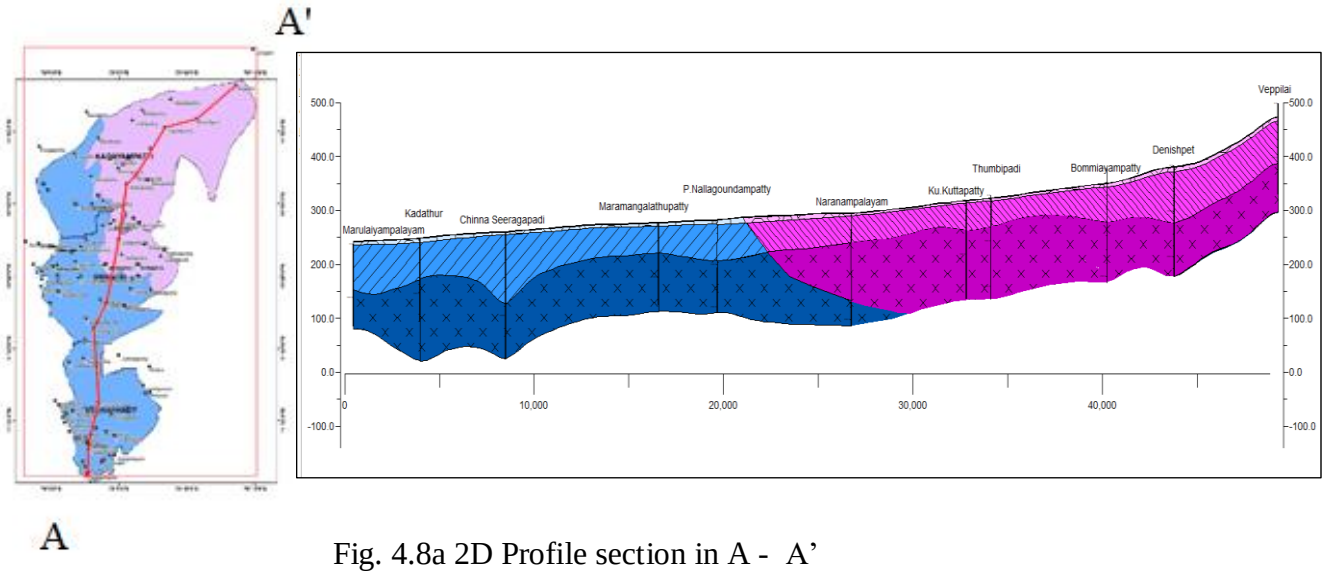


Fig. 4.8a 2D Profile section in A - A'

Table 4.1 Aquifer properties

Type of Aquifer	Formation	Thickness/ occurrence of fractures (m)	Range of Yield (Liter/h)	Sustainability (hrs)
Aquifer- I	Weathered Granitic Gneiss	4.5 – 25 (Avg. -14.6 m)	750 – 9000 (Avg 3000)	2- 4 hrs
	Weathered Charnockites	6-20 (Avg 10m)	750 – 2500 (Avg 1000)	2- 3 hrs
Aquifer –II	Jointed &Fractured Granitic Gneiss	19-180 (3 to 4 fractures exist) Nil at certain places	250 – 90000 (Avg 20000)	3-5 hrs
	Jointed &Fractured Charnockites	31-182 (1 to 2 fractures exist) Nil at certain places	250-68000 (Avg 15000)	2-3 hrs

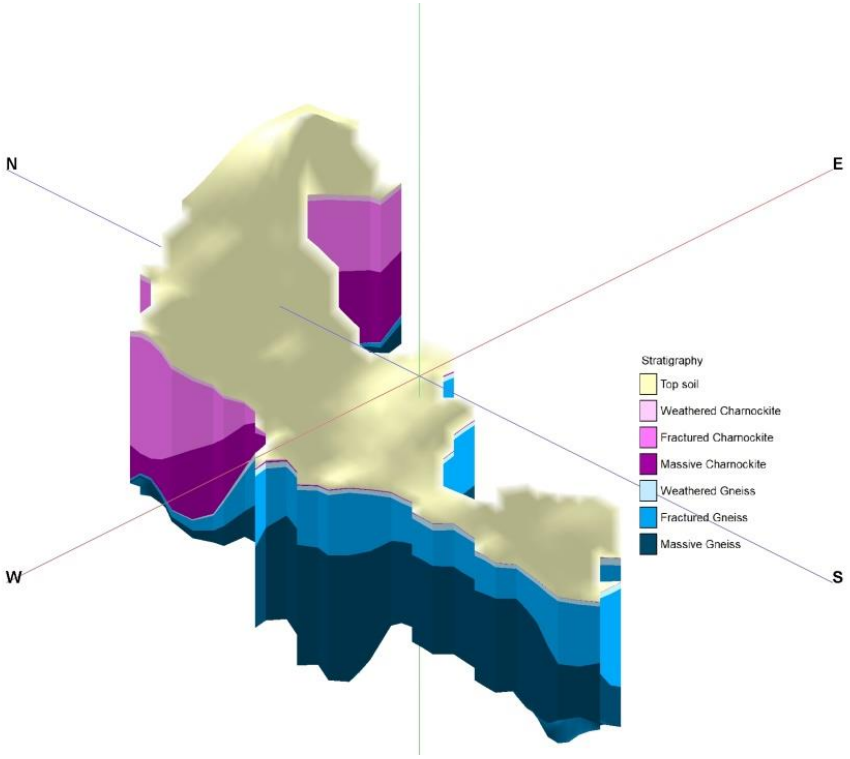


Fig. 4.8b - 3D view Aquifer dispositions of the study area

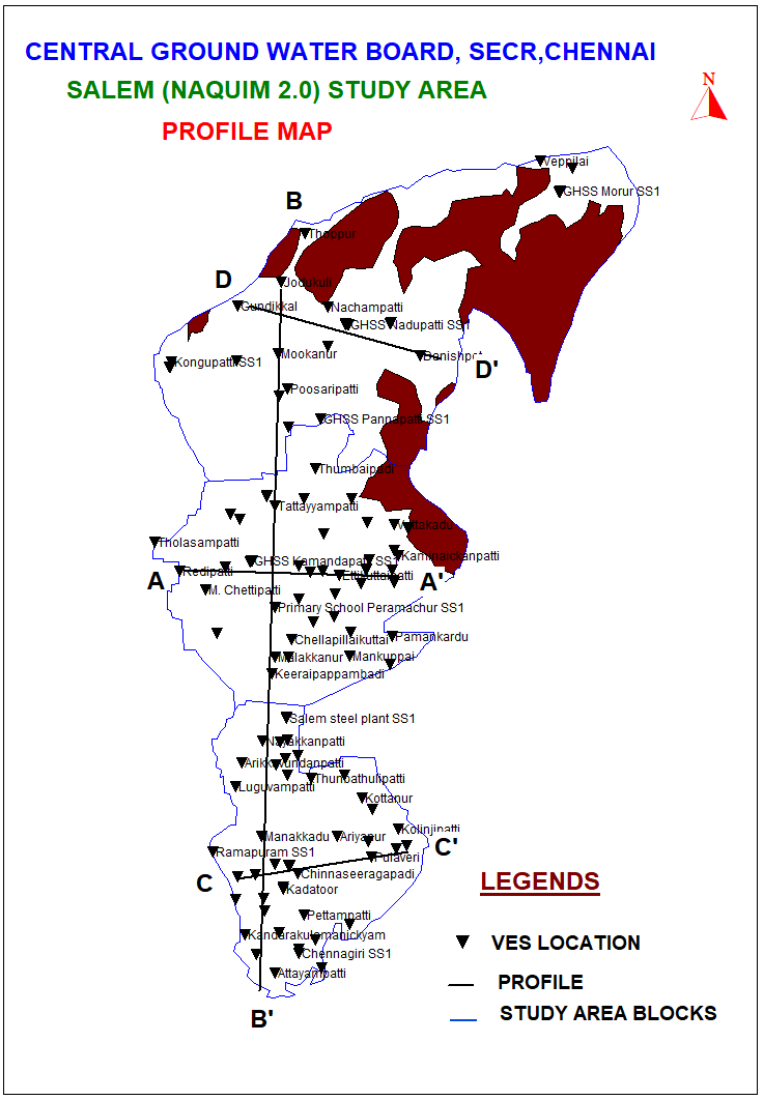
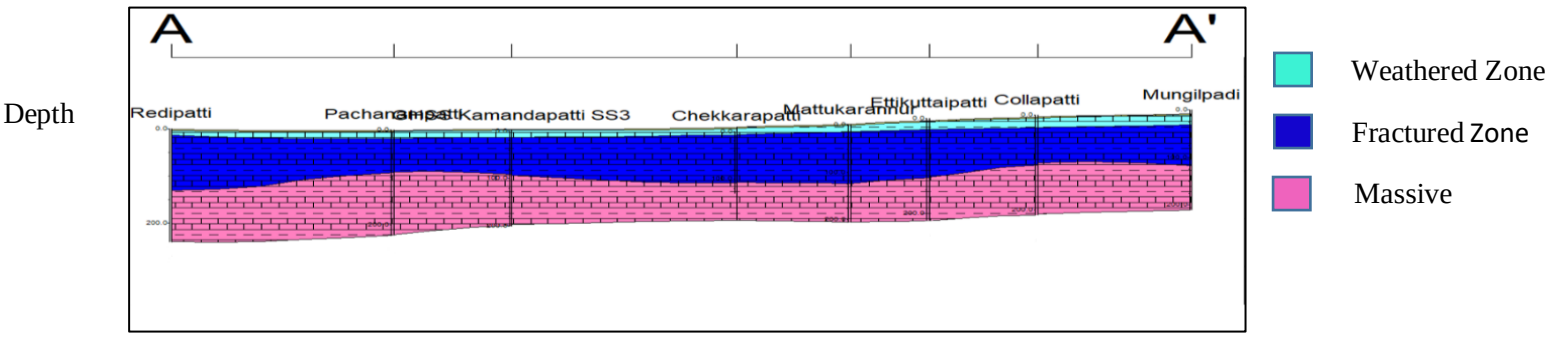


FIG. 4.9 Profile Map



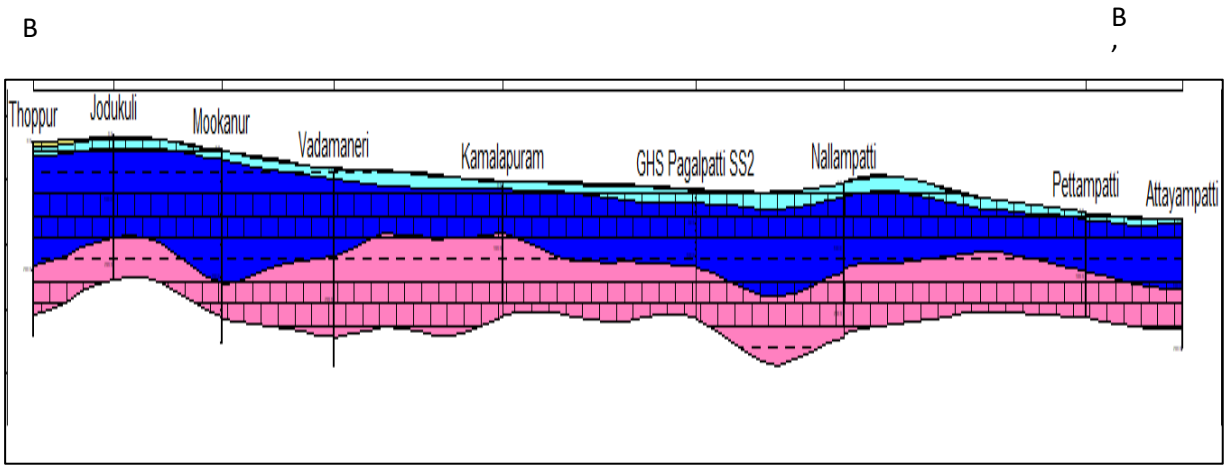


Fig. 4.10 Profile BB'

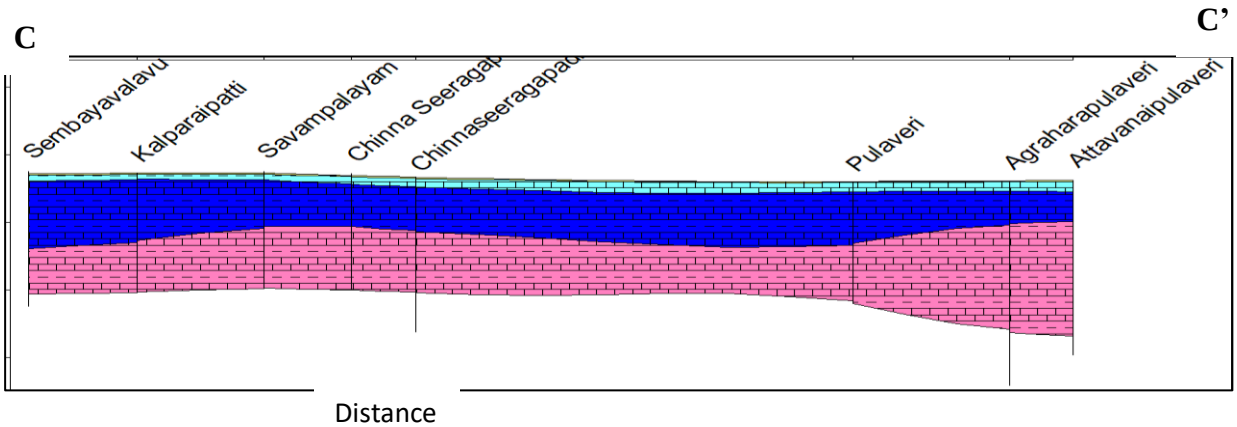


FIG. 4.11 Profile CC'

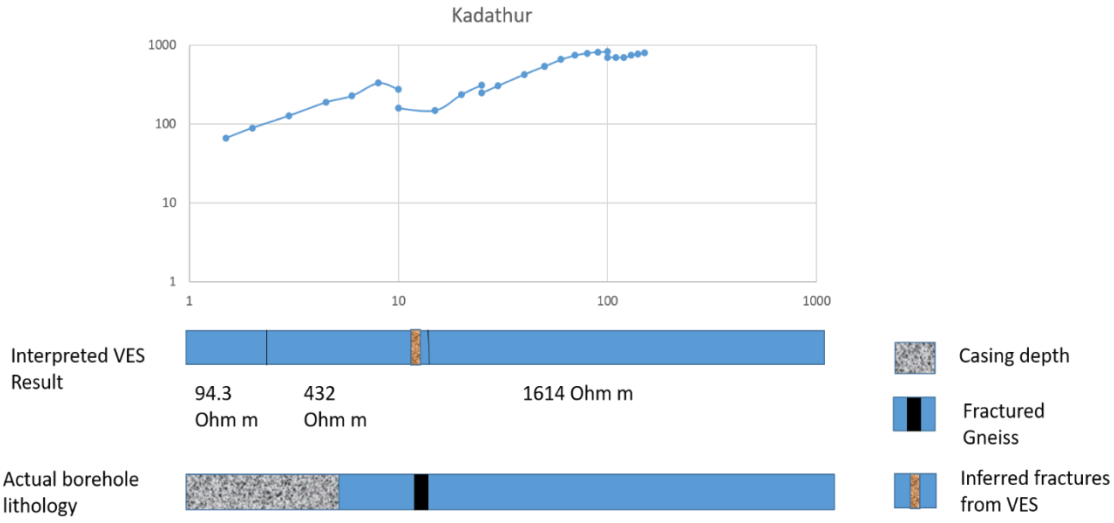


Fig. 4.12 Comparison of VES Data & Drilling Data for Kadathur Village

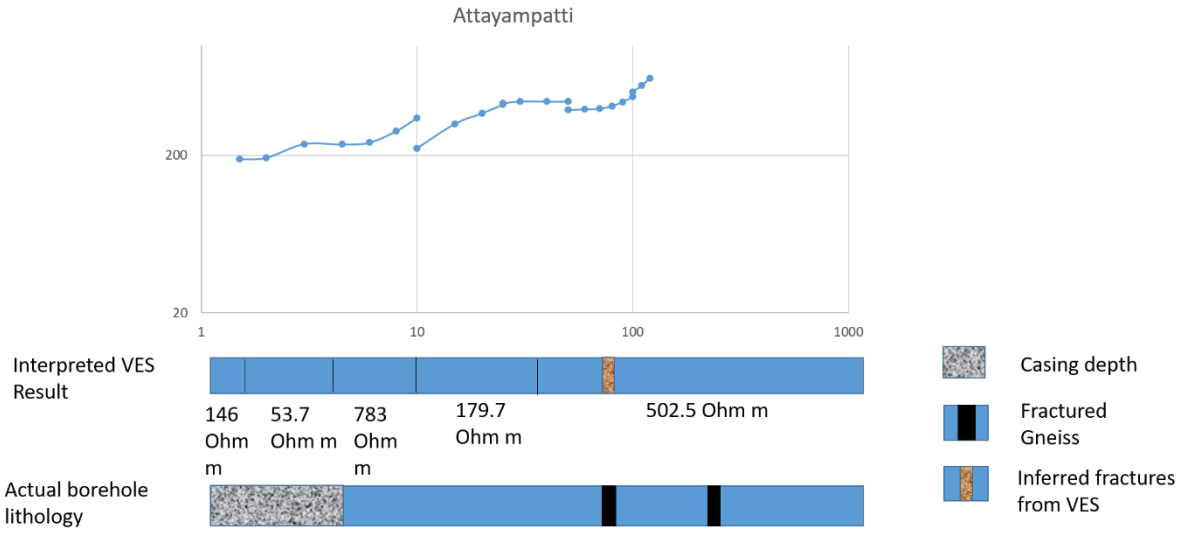


FIG. 4.12 Comparison of VES data & drilling data for Attayampatti village

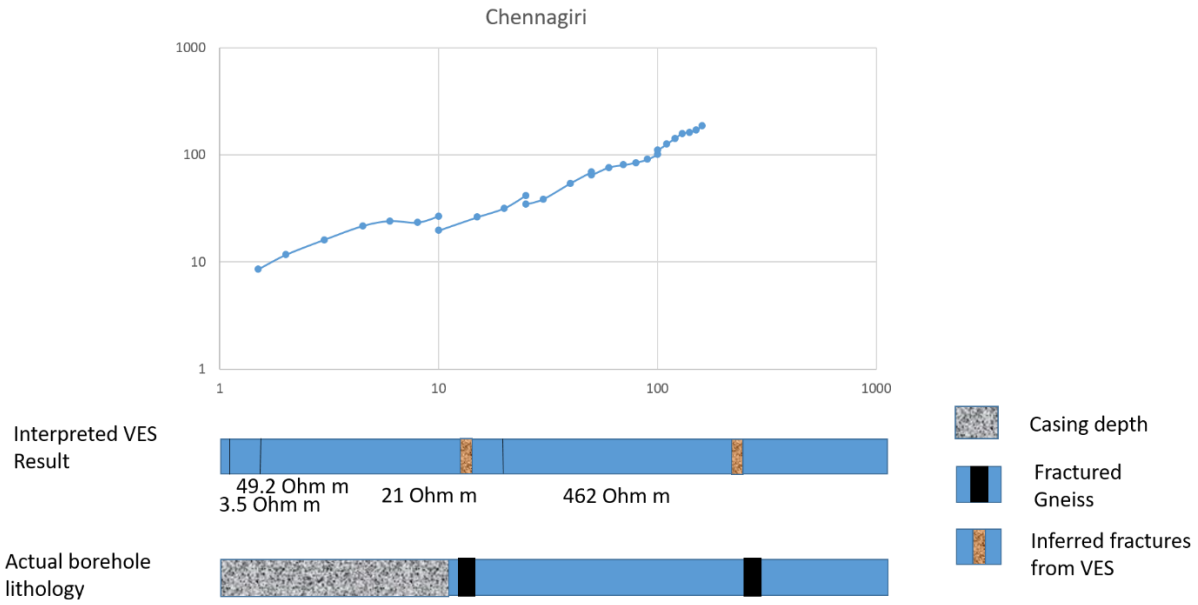


Fig. 4.13 Comparison of VES data & drilling data for Chennagiri village

4.3 Hydrochemical Data and Interpretation:

a) Dissolution of Fluoride-containing Minerals:

When water comes into contact with minerals such as fluorite (CaF2), apatite, or micas, it can dissolve fluoride through chemical reactions. For example: CaF2→Ca2++2F−

This reaction releases calcium ions (Ca 2+) and fluoride ions (F-) into the water.

The natural weathering of rocks and minerals can lead to the release of fluoride. For instance: Aluminum Fluoride Minerals→Al3++3F−. This reaction releases aluminium ions (Al3+) and fluoride ions (F-) into the water. In some cases, fluoride can be present in the form of dissolved fluorine compounds, and reduction reactions may occur.

For example: NaF+2H→Na+H2+HFNaF+2H→Na+H2+HF This reaction involves the reduction of sodium fluoride (NaF) to release sodium ions (Na+) and hydrogen fluoride (HF). Fluoride can undergo adsorption and desorption processes onto minerals or soil particles, affecting its concentration in groundwater.

Higher temperatures often accelerate dissolution reactions. Warmer water can enhance the breakdown of minerals and the release of fluoride ions. The duration of water-mineral interaction is crucial. Prolonged contact allows for more extensive dissolution of minerals, increasing fluoride concentrations.

Ground water samples 75 collected from aquifer- I (dug wells) and 75 samples from aquifer II (Bore wells) located in 75 panchayath from 3 blacks Veerapondy, Kadaypatty and Omalur in Sale District during the pre-monsoon, 90 samples collected from selected point of high concentration of fluoride during post monsoon for detailed chemical analysis and heavy metal analysis.

560 samples collected during mid-monsoon from Aquifer I and aquifer II for F analysis. All the water samples were analysed for major ion chemistry following the standard methods APHA, 23rd edition. The analytical results of basic parameters and heavy metals are given as Annexure - IA, IB for pre-mon soon, IIA & IIB for post monsoon and IIIA and III B for mid monsoon. The suitability of water for drinking was referred based on Bureau of Indian Standard (BIS) drinking water standard (IS: 10500:2012).

4.3.1 Ground water quality of Salem during Pre-mon soon for Aquifer-I & Aquifer-II

S. No	Parameters	Type		Aquifer-I		Aquifer-II	
			Range	No. of sample	Percentage	No. of sample	Percentage
1	Electrical Conductivity µs/cm at 25°c	Fresh	< 750	NIL	NIL	1	1.3699
		Moderate	751-2250	45	56.2	41	56.164
		Slightly mineralized	2251-3000	15	18.8	19	26.027
		Highly mineralized	> 3000	20	25	12	16.438
2	Chloride mg/l	Desirable limit	< 250	28	35	27	36.986
		Permissible limit	251-1000	41	51	42	57.534

		Beyond permissible limit	> 1000	11	14	4	5.4795
3	Fluoride mg/l	Desirable limit	< 1.0	55	68.7	24	32.877
		Permissible limit	1.1- 1.5	11	13.8	21	28.767
		Beyond permissible limit	>1.5	14	17.5	28	38.356
4	Nitrate mg/l	Desirable limit	<45	25	31	49	67.123
		Permissible limit	45-100	27	34	16	21.918
		Beyond permissible limit	>100	28	35	8	10.959

b. Checking the cation-anion balance

The quality of analytical data (concentration of cation and anion) is evaluated by computing the ionic balance. For statistical summaries of analytical data of water samples minimum, maximum, mean and median were determined for all the data sets. The analytical precision for the measurements of cations and anions was determined by calculating the ionic balance error that varies by about 5– 10% (Freeze and Cherry, 1979).

Sum of cations = sum of anions where:

cations = positively charged species in solution (meq/l)

anions = negatively charged species in solution (meq/l)

The Electronic charge balance is expressed as follows:

$$\text{Electronic Charge Balance (ECB \%)} = \frac{[\sum \text{cations} - \sum \text{anions}]}{[\sum \text{cations} + \sum \text{anions}]} \times 100$$

Table 4.3.2 Physico-chemical parameters of the study area- Aquifer-I

Parameters	Aquifer -I					Aquifer-II				
	Min	Max	Mean	Median	Mode	Min	Max	Mean	Median	Mode
pH	7.7	9.24	8.68	8.76	8.6	7.3	9.2	8.67	8.76	9.0

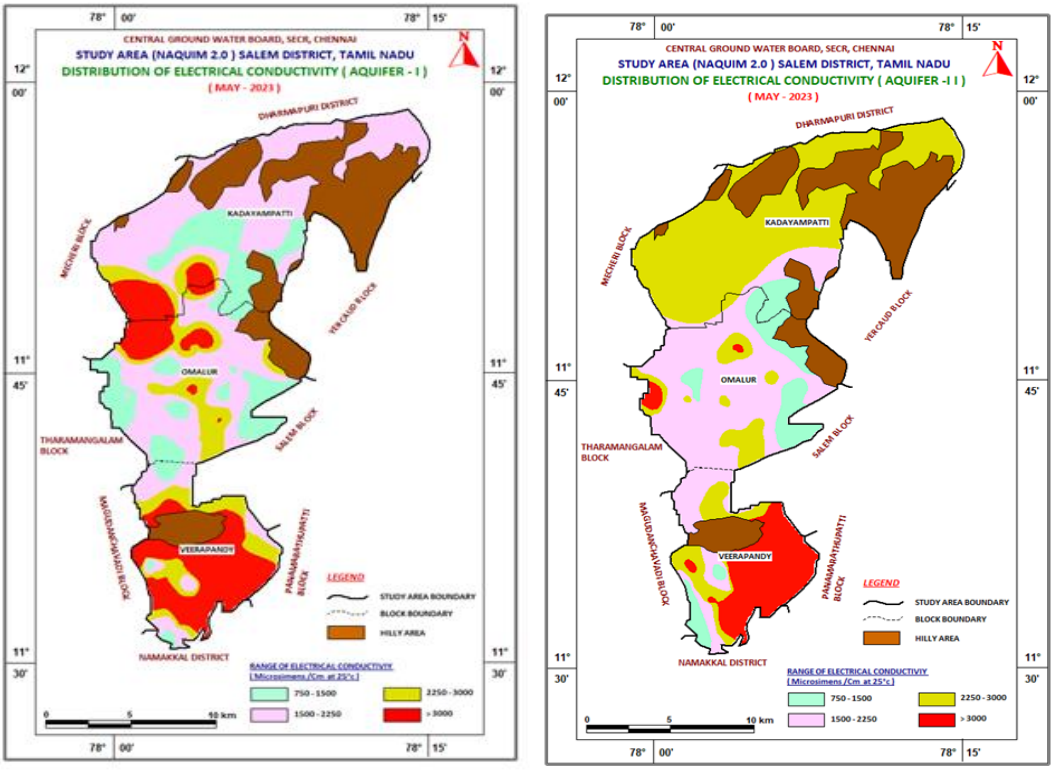
Parameters	Aquifer -I					Aquifer-II				
	Min	Max	Mean	Median	Mode	Min	Max	Mean	Median	Mode
EC	882	10560	2604	2039	1440	550	9470	2396.3	1998	2500
TDS	573	8448	1692	1325	936					500
TH	135	2610	683	525	400	175	3250	678.42	530	36
Ca^{+2}	4	188	51	37	36	6	240	53.205	44	116
Mg^{+2}	11	574	135	98	104	22	668	133	104.507	391
Na^{+}	14	1265	282	220	161	39	690	237	207	4.6
K^{+}	1	25	8	8.01	4.6	1	36	8	7.82	0
Cl^{-}	0	60	21	20.4	30	0	33	20	25.8	366
HCO_3	98	964	375	343	305	122	885	374	366.12	248
Cl	71	3580	549	322	212	89	2563	472	354.5	48
SO4	14	432	132	96	72	2	310	87	80.6	74
F^{-}	0.2	2.0	1.0	0.82	1.2	0.2	2	1.0	0.8	0.8

c. pH

In the study area of the ground water in the district, the pH ranged between 7.7 and 9.24 Based on analytical data, in about 100 % of the area the groundwater pH is between 7 and 9.24. Observed the pH of our study area that all water samples slightly alkaline to strong alkaline in nature. The presence of alkaline water in groundwater is often associated with specific geological conditions that influence the mineral composition of the aquifer. The pH of groundwater is influenced by the geological formations through which it flows, the dissolution of minerals like limestone can lead to the presence of bicarbonate ions, contributing to alkaline conditions. Conversely, the oxidation of sulfide minerals can result in acidic conditions. industrial discharges or agricultural runoff may introduce acidic or alkaline substances into groundwater, altering its natural pH.

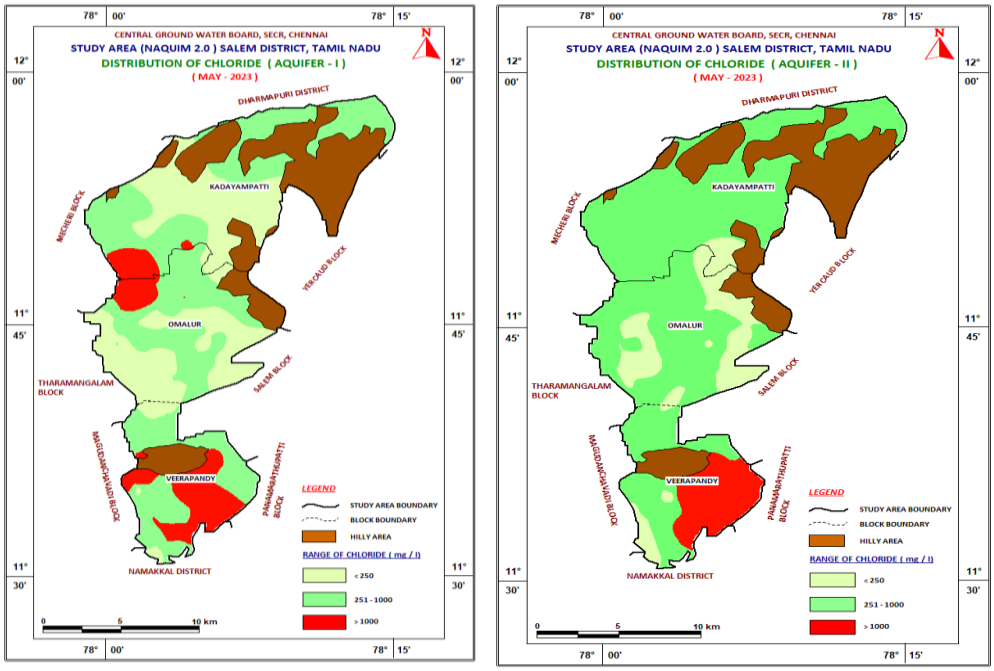
d. Electrical Conductivity

Fig.4.14 Distribution of Electrical Conductivity (Aquifer -I and II)



In general, based on our data the ground water quality in the study area for no fresh water was observed (<750ms/cm) for aquifer I and 1.4 % were observed for aquifer II. In about 30 % of the wells for aquifer I and 56 % of the wells for aquifer II the EC varies between 751 -2250µs/cm at 25° C 19 % of wells for aquifer I and 26 % of the wells for aquifer II are between 2251-3000 µs/cm at 25° C indicating that the ground water is slightly mineralized and about 25 % of the EC for aquifer I and 16.6 % of the wells for aquifer II are more than 3000 µs/cm at 25°C indicating that the ground water is highly mineralized. The highest value 10560 µs/cm at 25° C was observed in Semandapatty village Kadayampatty block in aquifer I and the highest value 9470 µs/cm at 25° C was observed in cinigiri village Veerapondy lock in aquifer II

Fig.4.15 Distribution of Chloride (Aquifer -I and II)



e. Chloride

Chloride is a common anion found in groundwater, and its concentration can vary based on geological, hydrological, and anthropogenic factors. Here are some key points about chloride in groundwater:

Chloride is naturally present in groundwater due to the dissolution of chloride-containing minerals in the Earth's crust, such as halite (rock salt) and sylvite. Coastal areas may experience higher chloride concentrations in groundwater due to the intrusion of seawater into freshwater aquifers. Human activities, including the use of road salts, industrial discharges, and certain agricultural practices, can contribute to elevated chloride levels in groundwater.

Chloride concentration is a useful indicator of water quality. Monitoring chloride levels can provide insights into potential contamination, especially in areas where human activities may impact groundwater quality. High chloride concentrations in drinking water can affect its taste. Additionally, chloride ions can contribute to the corrosivity of water, potentially impacting metal infrastructure like pipes.

f. Distrubution of Fluoride:

The concentration of Fluoride in ground water has been observed from 75 key dug wells Aquifer-1 and 75 bore wells Aquifer-II situated at each and every panchayath limit of study area. Based on the outcome of chemical results it had decided to collect water samples in closer interval representing habitation wise of each panchayath. Accordingly, 282 dug well sample and 278 bore well sample and 8 hand pump water samples collected during September 2023. It has been observed that 48 panchayath Dug Well Fluoride level is more than 1.5 mg/l and 45 panchayath bore well Fluoride level is between 1 to 1.5 mg/l which may not suitable for drinking purpose. Further, it has also observed that 65 panchayath Dug Well Fluoride level is less than 1mg/l and 61 panchayath bore well Fluoride level is less than 1mg/l which may be considered for drinking purpose. Aquifer-I pH value observed in Dug wells range from 7.0 to 9.1 and EC 300 to 14300 µS/cm. Aquifer –II pH value observed range from 7.06 to 8.25 and EC range from 220 to 8170 µS/cm.

Table:4.3. e blocks wise Flouride distributions in the study area

Dug well / Aquifer-I	F Less than 1mg/l	F 1mg/l to 1.5mg/l	F More than 1.5mg/l
Veeeapandi block	23	13	17
Omalur block	29	21	20
Kadayampatty block	13	11	11
Total	65 panchayath	45 panchayath	48 panchayath
Bore well /Aquifer –II			
Veeeapandi block	19	22	12
Omalur block	27	18	20
Kadayampatty block	15	10	12
Total	61 panchayath	40 panchayath	44 panchayath

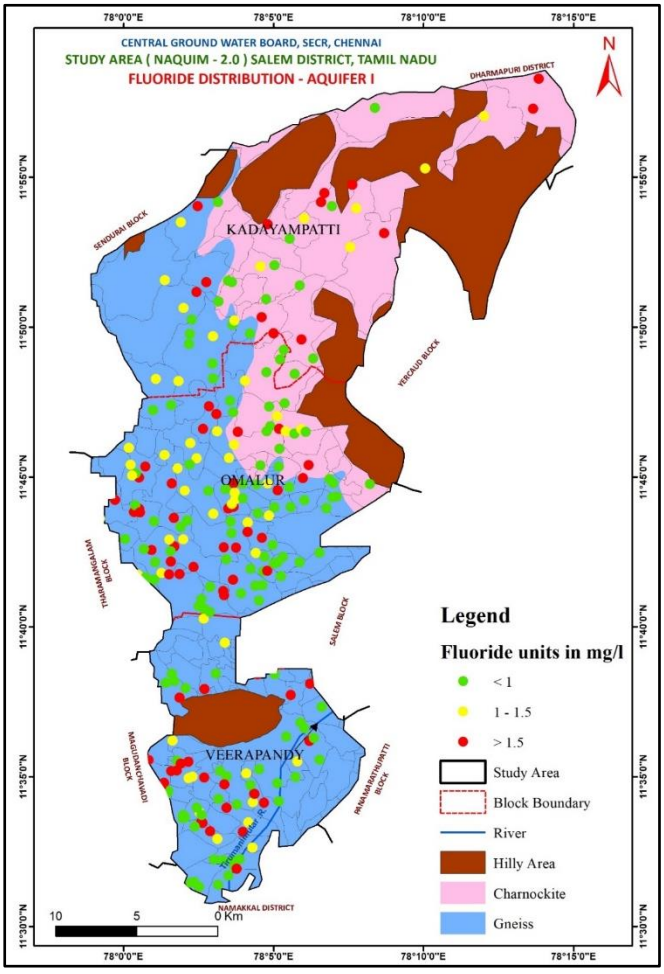


Fig: 4.16a Village Wise Distribution of Fluoride in Aquifer-I

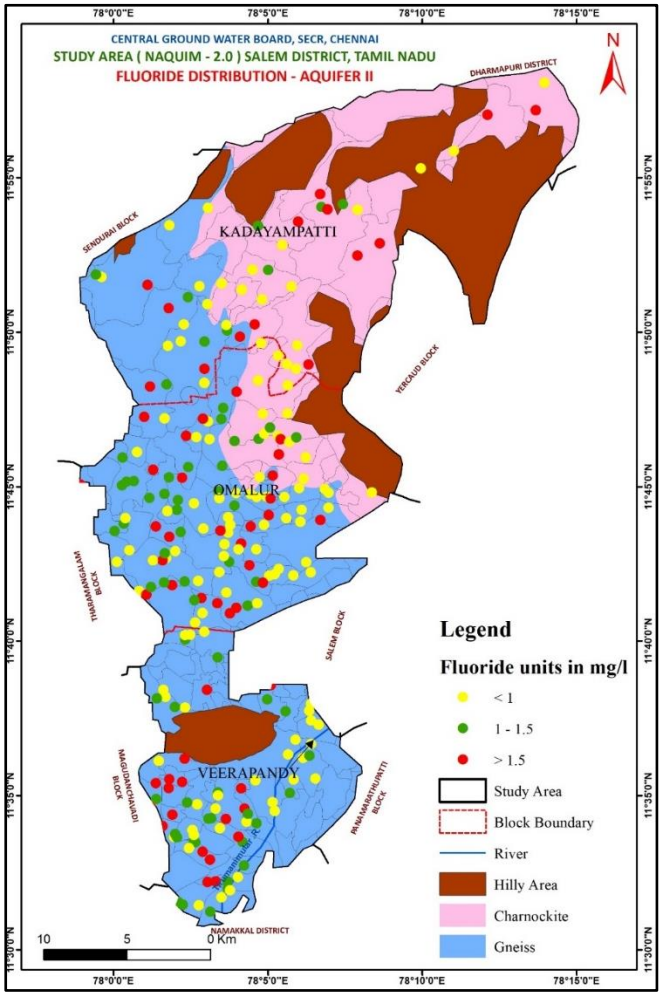


Fig: 4.16b Village Wise Distribution of Fluoride in Aquifer-II

Fluoride range observed in Aquifer I and Aquifer II permissible and non-permissible panchayath based on intensive sample collected locations.

Table 4.3.f Village Wise Distribution of Fluoride in Aquifer I

Dug Well/ Aquifer-I	Panchayath F Range 1mg/L To 1.5mg/L	Panchayath F Range More Than 1.5mg/L
Veerapandi Block	1.Aarigondumaptty 2.Akkarapalayam 3.Anaikuttapatty 4.Bairoji 5.Chennagiri	1.Kalpalapatti 2.Periya Seeragapadi 3.Perumagoundampatty

Dug Well/ Aquifer-I	Panchayath F Range 1mg/L To 1.5mg/L	Panchayath F Range More Than 1.5mg/L
	6.Ettimanikampatty 7.Kadathur 8.Keeraipappampady 9.Maramangalathupatty 10.Marulampalayam 11.Mooduthurai 12.Murungapatty 13.Pulavari 14.Rajapalayam 15.Rakkipatty 16.S.Papparapatty 17.Senaipalayam 18.Uthamasolapuram 19.Veerapandi	4.Perumampatty 5.Puthur 6.Vembadithalam
Omalur Block	1.Balpakki 2.Chellapillaikuttai 3.Ettikuttapatty 4.Gollapatty 5.Kamalapuram 6.Kottamariyammankoil 7.Kottamettupatty 8.Manguppai 9.Moongilpadi 10.Nallagoundanpatty 11.Naranampalayam 12.Pachanampatty 13.Pottiyapalayam 14.Sakkarachettypatty 15.Saminayakkanpatty 16.Sangeethapatty	1kottagoundampatty 2.M.Chettipatty 3.Muthunayakanpatty 4.Pagalpatti 5.Periyeripatty 6.Puliyampatty 7.Thathiyampatty 8.Tholasampatty 9.U.Maramangalam 10.Vellalapatty

Dug Well/ Aquifer-I	Panchayath F Range 1mg/L To 1.5mg/L	Panchayath F Range More Than 1.5mg/L
	17.Semmankoodel 18.Sikkampatty 19.Sikkanampatty 20.Thekampatty 21.Thindamangalam 22.Thumbiipadi 23.Vellakkalpatty	
Kadayampatty Block	1.Bommiyampatty 2.Dharapuram 3.Gundukal 4.Kanjanayakanpatty 5.Kongupatty 6.Ku.Kuttapatty 7.Mookanur 8.Nadupatty 9.Pannapatty 10.Poosaripatty 11.Semmandapatty 12.Theevattipatty 13.Veppilai	1.Danishpet 2.Kannavaiputhur 3.Karavalli 4.Umbilikampatty
TOTAL	55 Panchayath	20 anchayath

Table 3.5.2b Village Wise Distribution of Fluoride in Aquifer II

Bore Well / Aquifer-II	Panchayath F range 1mg/l to 1.5mg/l	Panchayath F range More than 1.5mg/l
Veerapandi Block	1.Akkarapalayam 2.Anaikuttapatty 3.Arigoundampatty 4.Bairoji 5.Chinnagiri 6.Ettimanikampatty 7.Kadathur 8.Keerapappampady 9.Maramangalathupatty 10.Marulayampalayam 11.Mooduthurai 12.Murungapatty 13.Perumampatty 14.Pulavari 15.Puthur 16.Rakipatty 17.S.Papparapatti 18.Periya Seeragapadi 19.Uthamasolapuram 20.Vempadithalam	1.Kalparapatty 2.Perumakoundampatty 3.Rajapalayam 4.Senaiplayam 5.Veerapandi
Omalur Block	1.Chellapillaikuttai 2.Gollapatty 3.Kamalpuram 4.Kottagoundanpatty 5.Kottaimariyamankoil	1.Balpakki 2.Moongilpadi 3.Naranampalayam

Bore Well / Aquifer-II	Panchayath F range 1mg/l to 1.5mg/l	Panchayath F range More than 1.5mg/l
	6.Kottamettupatty 7.M.Chettipatty 8.Manguppai 9.Moongilpadi 10.Muthunayakanpatty 11.Nallagoundanpatty 12.Pachanampatty 13.Pottiyapuram 14.Puliyampatty 15.Sakarachettypatty 16.Saminayakanpatty 17.Semmankudal 18.Sikkampatty 19.Sikkanampatty 20.Thathiyampatty 21.Thekampatty 22.Thindamangalam 23.Tholasampatty 24.Thumbipady 25.Vellakalpatty 26.Vellalapatty	4.Pagalpatty 5.Periyeripatty 6.Sangeethapatty 7.U.Maramanagalam
Kadayampatty Block	1.Bommiyampatty 2.Dharapuram 3.Gundakkal 4.Kanjanayakanpatty 5.Karuvalli 6.Kongupatty 7.Ku.Kuttapatty 8.Mookanur 9.Nadupatty 10.Poosaripatty 11.Semmandapatty 12.Theevatipatty 13.Umbillikampatty 14.Veppilai	1.Danishpet 2.Kannavaiputhur 3.Pannapatty
Total	60 Panchayath	15 anchayath

g. Vertical Distribution of Fluoride:

563 Nos of Intensified Ground water samples has been collected in the study area along with aquifer details like depth, dia, pumping duration, discharge etc., The sampleas were analysied at CGWB, SECR Chemail labartory at most care. After analysis based on fluoride ranges against the depth range of Aquifer I and II is illustrated in Fig 4.17a and 4.17b

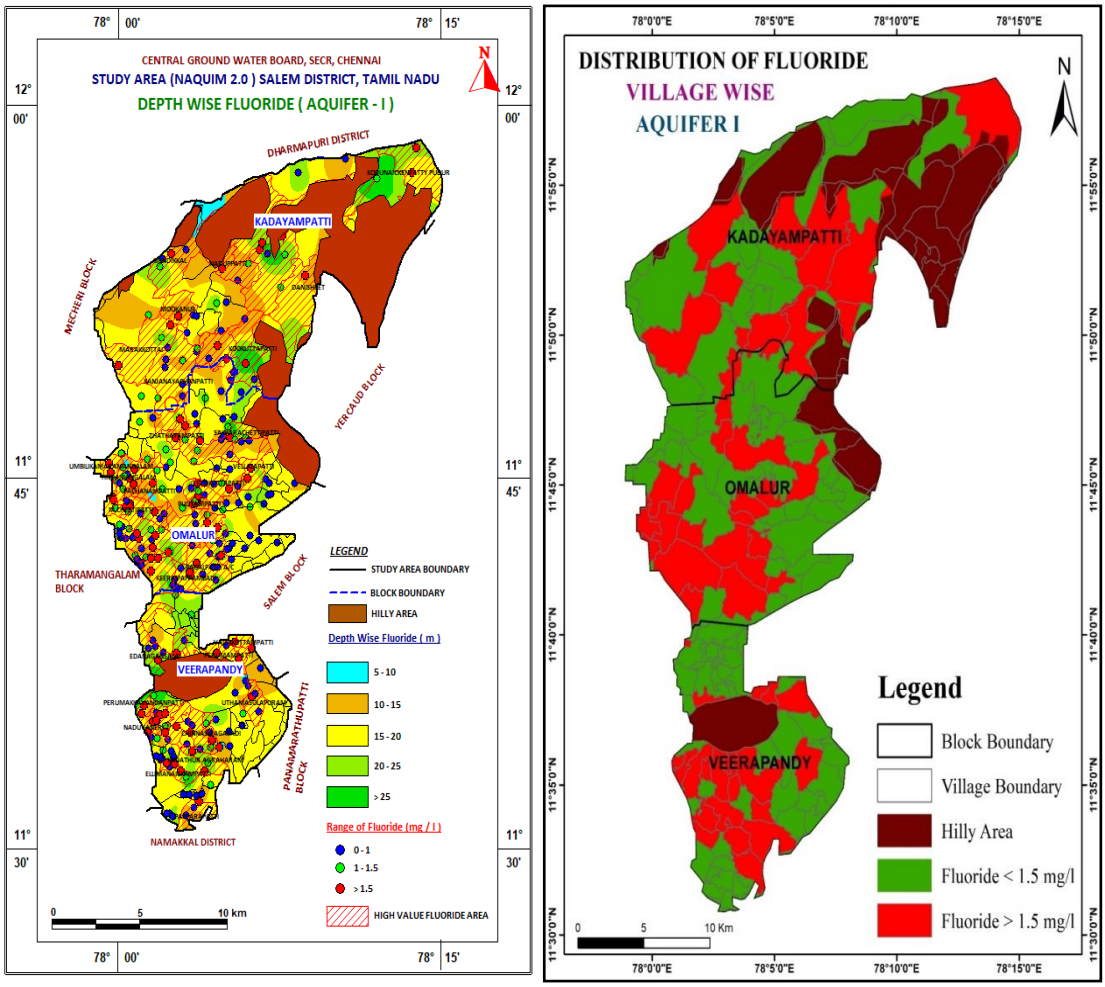


Fig: 4.17a and b. Aquifer I Depth wise & Village wise Fluoride distribution

282 Nos of ground water samples has been collected from Aquifer I ie. From Dug wells with depth ranging from 5.5 m to 45 m. based on the fluoride analysis with in 10 m 5 samples has been analysed and 2 are fall in fluoride beyond permissible limit. Maximum samples depth is raning from 15 to 20m. 130 Nos of

samples were collected from these depth range, among these 27% of the samples has fluoride beyond permissible limit. The details are shown in Table 4.3.g

Table 4.3.g Aquifer I depth wise Fluoride distribution

Depth range (m)	No. of Samples	Fluoride < 1.5 mg/ l	Fluoride > 1.5 mg/ l
Upto 10	05	03	02 (40%)
10 - 15	79	55	24 (30%)
15 - 20	130	95	35 (27%)
20 - 25	57	41	16 (28%)
> 25	11	08	03 (27%)
Total	282	202	80

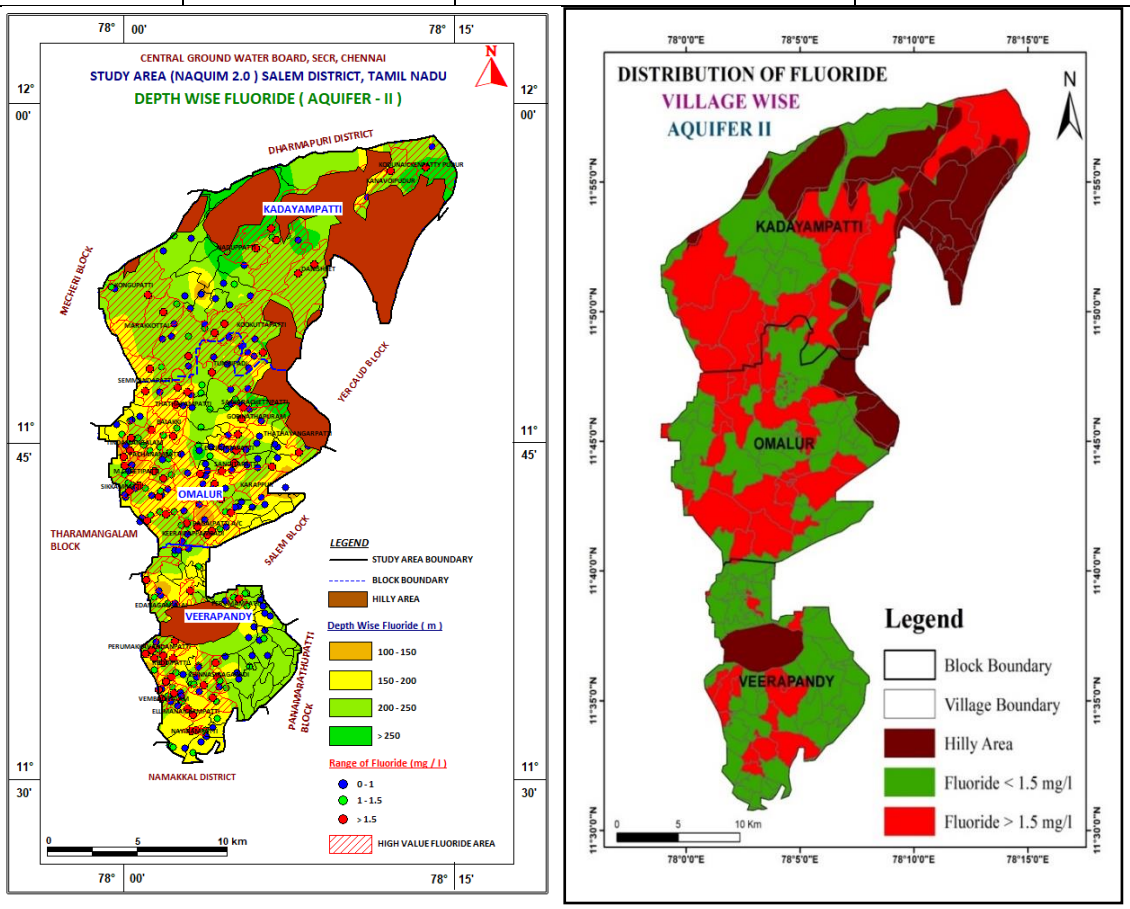


Fig: 4.18a and b. Aquifer II Depth wise & Village Wise Fluoride distribution

281 Nos of ground water samples has been collected from Aquifer II ie. From Bore wells and Hand pumps with depth ranging from 100 m to 300 m. based on the fluoride analysis with in 150 m 7 samples has been analysed and all are fall in fluoride within permissible limit. Maximum samples depth is raning from 200 to 250m. 138 Nos of samples were collected from this depth range; among these 33% of the samples has fluoride beyond permissible limit. The details are shown in Table 4.18a and b

Table 4.3.h Aquifer II depth wise Fluoride distribution

Depth range (m)	No. of Samples	Fluoride < 1.5 mg/ l	Fluoride > 1.5 mg/ l
Upto 150	07	07	00 (0)
150 - 200	128	94	34 (27%)
200 - 250	138	105	33 (24%)
> 250	08	04	04 (50%)
Total	281	210	71

5. Conclusion and Recommendation

There are 75 Key wells has been established in addition to 16 NHS, 34 WRD and 4 TWAD Monitoring Stations. During pre monsoon it is observed that 31% of Monitoring stations depth to water level is with in 2 – 5m range and 56% of the monitoring stations are with in 5 – 10m range, during postmonsoon also the same range of water level has been observed except few places are ranging from 10 -20m.

Around 20% the Study area is covered by hill ranges and 46% of the area is covered by Charnockite and 54% of the area is occupied by Granitic gneiss / Gneissic formation. Around 20% (9 no.) of the well is constructed in charnockite and 80% (37no) in Gneissic formation to know the aquifer disposition.

Approximately ~1 key well / Sq.Km is established for ground water sampling , 75 nos of wells are established for each Aquifer I and II during pre monsoon and 282 and 281 nos during intensified sample collection has been carryout in Aquifer I and II respectively.

After analysing the water samples collected from 563 locations of three blocks. Fluoride free (with in desirable limit) ground water sources identified in 65 panchayath of Aquifer-I and 61 panchayath of

Aquifer-II. Local administrations may consider such safe ground water sources for supply of drinking purpose.

It has been observed that 48 panchayath Aquifer-I and 44 panchayath Aquifer-II in three blocks has fluoride more than permissible limit i.e. >1.5mg/l such ground water sources need to be avoided to prevent complications due to Fluoride.

Formation wise Fluride range is given below in the table Aquifer I and II during Premonsoon

Formation	No. of Samples	Fluoride < 1 mg/ l	Fluoride 1 – 1.5 mg/ l	Fluoride > 1.5 mg/ l
Charnockite	14	9	4	1 (7%)
Gneiss	61	46	7	8 (13%)
Total	75	55	11	9 (12%)
Formation	No. of Samples	Fluoride < 1 mg/ l	Fluoride 1 – 1.5 mg/ l	Fluoride > 1.5 mg/ l
Charnockite	14	8	5	1 (7%)
Gneiss	61	40	11	10 (16%)
Total	75	48	16	11 (21%)

Formation wise Fluride range is given below in the table Aquifer I and II during Intensified Sampling

Formation	No. of Samples	Fluoride < 1 mg/ l	Fluoride 1 – 1.5 mg/ l	Fluoride > 1.5 mg/ l
Charnockite	48	24	11	13 (27%)
Gneiss	234	113	54	67 (29%)
Total	282	137	65	80 (28%)
Formation	No. of Samples	Fluoride < 1 mg/ l	Fluoride 1 – 1.5 mg/ l	Fluoride > 1.5 mg/ l
Charnockite	48	27	9	12(25%)

Gneiss	233	107	68	58(25%)
Total	281	134	77	70(27%)

Ground water quality highly contaminated (high EC, pH, turbidity and odour in water) Around Tirumanimuttar river Uthamasolapuram, Akkarapalayam and Pulavari panchayath of Veerapandi block due to Salem city discharging its drainage, sewage waste into river may be treated by STP system before it reaches river.

Drying up / declining water level has been observed in Northern part of area due to higher elevation construction of more recharge structures viz. recharge pit, check dams may improve the sustainability of dug wells.

Regular desilting of existing check dams and ponds are suggested for augmenting recharge to the phreatic aquifers

5.1 Village wise Supply side management plan:

There are 126 villages comes under three blocks of the study area. Based on the outcome field observation from Aquifer I and Aquifer II during pre and post monsoon period, in total of 586 structures for the amount of Rs. 53.87 crore has been proposed in villages of the study area. Village wise recommendation plan have been given as per the table 5.1a below:

Table 5.1a Village wise Supply side management plan

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
1	Akkaraipalayam	3.55	8.66	5.66	0.020	0.40	0.53	0.89	0.27	1	2	2
2	Anaikavundanpatti	0.65	6.23	3.23	0.020	0.04	0.06	0.16	0.05	0	0	0
3	Ariyakkavundanpatti	2.75	10.57	7.57	0.020	0.42	0.55	0.69	0.21	1	2	2
4	Ariyampalayam	1.78	9.45	6.45	0.020	0.23	0.31	0.45	0.13	0	1	1
5	Attavanai Pulaveri	0.46	10.94	7.94	0.020	0.07	0.10	0.11	0.03	0	0	0
6	Attayampatti	1.68	8.41	5.41	0.020	0.18	0.24	0.42	0.13	0	1	1
7	Bairoji Agraharam	6.13	11.22	8.22	0.020	1.01	1.34	1.53	0.46	1	5	5
8	Balbakki	5.01	7.38	4.38	0.020	0.44	0.58	1.25	0.38	1	2	2
9	Basuvanattampatti	1.37	11.36	8.36	0.020	0.23	0.30	0.34	0.10	0	1	1

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
10	Chellapillaikuttai	9.25	8.26	5.26	0.020	0.97	1.30	2.31	0.69	1	5	5
11	Chennagiri	3.73	11.33	8.33	0.020	0.62	0.83	0.93	0.28	1	3	3
12	Chettipatti	3.78	7.77	4.77	0.020	0.36	0.48	0.94	0.28	0	2	2
13	Chinna Siragappadi	2.14	10.22	7.22	0.020	0.31	0.41	0.53	0.16	0	1	2
14	Danishpet	19.79	7.92	4.92	0.020	1.95	2.59	4.95	1.48	3	9	10
15	Darapuram	5.95	9.00	6.00	0.020	0.71	0.95	1.49	0.45	1	3	4
16	Dasagasamudram	2.37	7.08	4.08	0.020	0.19	0.26	0.59	0.18	0	1	1
17	Divattippatti	6.48	8.43	5.43	0.020	0.70	0.94	1.62	0.49	1	3	4
18	Elattur	4.47	4.33	1.33	0.020	0.12	0.16	1.12	0.34	0	1	1
19	Elavadi	4.91	6.39	3.39	0.020	0.33	0.44	1.23	0.37	0	2	2
20	Erachinampatti	1.76	10.64	7.64	0.020	0.27	0.36	0.44	0.13	0	1	1
21	Eravadi Pettampatti	1.56	11.54	8.54	0.020	0.27	0.35	0.39	0.12	0	1	1
22	Ettikuttaipatti	2.41	9.96	6.96	0.020	0.34	0.45	0.60	0.18	0	2	2
23	Ettimanickampatti	2.55	12.58	9.58	0.020	0.49	0.65	0.64	0.19	1	2	3

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
24	Gobinathapuram	2.79	7.54	4.54	0.020	0.25	0.34	0.70	0.21	0	1	1
25	Gollappatti	2.09	6.95	3.95	0.020	0.16	0.22	0.52	0.16	0	1	1
26	Gundukkal	12.41	9.88	6.88	0.020	1.71	2.27	3.10	0.93	2	8	9
27	Ilampillai	2.98	7.17	4.17	0.020	0.25	0.33	0.75	0.22	0	1	1
28	Jagadevempatti	1.15	7.75	4.75	0.020	0.11	0.15	0.29	0.09	0	1	1
29	Kadathur Agraharam	3.29	10.82	7.82	0.020	0.52	0.69	0.82	0.25	1	2	3
30	Kadayampatti	15.33	9.59	6.59	0.020	2.02	2.69	3.83	1.15	3	9	11
31	Kalparappatti	3.70	5.19	2.19	0.020	0.16	0.22	0.92	0.28	0	1	1
32	Kamalapuram	8.01	6.23	3.23	0.020	0.52	0.69	2.00	0.60	1	2	3
33	Kaminayakkanpatti	0.94	7.66	4.66	0.020	0.09	0.12	0.24	0.07	0	0	0
34	Kanavoipudur	19.88	3.10	0.10	0.020	0.04	0.05	4.97	1.49	0	0	0
35	Kanjanayakkanpatti	13.52	9.02	6.02	0.020	1.63	2.17	3.38	1.01	2	8	9
36	Karadiyur	4.61	6.42	3.42	0.020	0.32	0.42	1.15	0.35	0	1	2
37	Karichipatti	2.61	9.89	6.89	0.020	0.36	0.48	0.65	0.20	0	2	2

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
38	Karuppanampatti	1.72	6.15	3.15	0.020	0.11	0.14	0.43	0.13	0	1	1
39	Karuppur	9.59	6.85	3.85	0.020	0.74	0.98	2.40	0.72	1	3	4
40	Kattaperiyampatti	0.65	4.10	1.10	0.020	0.01	0.02	0.16	0.05	0	0	0
41	Keerapappampadi	3.44	7.65	4.65	0.020	0.32	0.43	0.86	0.26	0	1	2
42	Ketunayakkampatti Pudur	19.42	3.10	0.10	0.020	0.04	0.05	4.86	1.46	0	0	0
43	Kolagur	3.07	6.53	3.53	0.020	0.22	0.29	0.77	0.23	0	1	1
44	Kombadipatti	1.16	7.03	4.03	0.020	0.09	0.12	0.29	0.09	0	0	0
45	Kongupatti (North)(kongupatti south)	20.63	10.65	7.65	0.020	3.16	4.20	5.16	1.55	4	15	17
46	Kottaimettupatti	4.78	7.79	4.79	0.020	0.46	0.61	1.19	0.36	1	2	2
47	Kottakkavundampatti	2.51	6.39	3.39	0.020	0.17	0.23	0.63	0.19	0	1	1
48	Kottanur	1.93	11.35	8.35	0.020	0.32	0.43	0.48	0.14	0	2	2
49	Kukuttaipatti	12.92	9.39	6.39	0.020	1.65	2.19	3.23	0.97	2	8	9
50	Kullamanayakanpatti	3.17	7.58	4.58	0.020	0.29	0.39	0.79	0.24	0	1	2

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
51	Kullanampatti	2.08	9.55	6.55	0.020	0.27	0.36	0.52	0.16	0	1	1
52	Laguvampatti	1.33	8.62	5.62	0.020	0.15	0.20	0.33	0.10	0	1	1
53	Mailappalaiyam	2.79	7.31	4.31	0.020	0.24	0.32	0.70	0.21	0	1	1
54	Mallaravuthanpatti	0.74	10.51	7.51	0.020	0.11	0.15	0.19	0.06	0	1	1
55	Mankuppai	1.63	6.63	3.63	0.020	0.12	0.16	0.41	0.12	0	1	1
56	Marakkottai	15.04	9.28	6.28	0.020	1.89	2.51	3.76	1.13	3	9	10
57	Maramangalattupatti	4.48	7.01	4.01	0.020	0.36	0.48	1.12	0.34	0	2	2
58	Marulayampalayam	1.22	8.99	5.99	0.020	0.15	0.19	0.30	0.09	0	1	1
59	Muduthurai	0.82	8.77	5.77	0.020	0.09	0.13	0.21	0.06	0	0	1
60	Mukkanur	5.55	10.27	7.27	0.020	0.81	1.07	1.39	0.42	1	4	4
61	Mungilpadi	3.18	7.41	4.41	0.020	0.28	0.37	0.80	0.24	0	1	1
62	Murungapatti	2.96	9.09	6.09	0.020	0.36	0.48	0.74	0.22	0	2	2
63	Muthunayakanpatti	12.01	8.42	5.42	0.020	1.30	1.73	3.00	0.90	2	6	7
64	Muttanampalyam	0.95	8.86	5.86	0.020	0.11	0.15	0.24	0.07	0	1	1

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
65	Nachchanampatti	3.89	6.79	3.79	0.020	0.29	0.39	0.97	0.29	0	1	2
66	Naduppatti	8.18	7.61	4.61	0.020	0.75	1.00	2.05	0.61	1	4	4
67	Nallampatti	1.81	12.34	9.34	0.020	0.34	0.45	0.45	0.14	0	2	2
68	Nallarayyampatti	2.55	7.93	4.93	0.020	0.25	0.33	0.64	0.19	0	1	1
69	Naranampalayam	0.74	8.31	5.31	0.020	0.08	0.10	0.19	0.06	0	0	0
70	Nayakkanpatti	1.15	9.38	6.38	0.020	0.15	0.20	0.29	0.09	0	1	1
71	Nayinampatti	1.23	7.64	4.64	0.020	0.11	0.15	0.31	0.09	0	1	1
72	Neikkarapatti	3.87	6.52	3.52	0.020	0.27	0.36	0.97	0.29	0	1	1
73	Omalur	8.06	3.10	0.10	0.020	0.02	0.02	2.01	0.60	0	0	0
74	P.Kalippatti	1.89	4.78	1.78	0.020	0.07	0.09	0.47	0.14	0	0	0
75	Pachchanampatti	6.15	8.41	5.41	0.020	0.67	0.89	1.54	0.46	1	3	4
76	Pagalpatti	7.87	9.81	6.81	0.020	1.07	1.43	1.97	0.59	1	5	6
77	Palampatti	1.86	5.91	2.91	0.020	0.11	0.14	0.46	0.14	0	1	1
78	Palappallikombai	0.67	7.04	4.04	0.020	0.05	0.07	0.17	0.05	0	0	0

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
79	Pannappatti	7.10	8.75	5.75	0.020	0.82	1.09	1.78	0.53	1	4	4
80	Papparapatti	1.39	9.18	6.18	0.020	0.17	0.23	0.35	0.10	0	1	1
81	Parappatti	5.16	10.75	7.75	0.020	0.80	1.06	1.29	0.39	1	4	4
82	Peria Siragappadi	3.59	8.08	5.08	0.020	0.36	0.49	0.90	0.27	0	2	2
83	Periyerippatti	4.72	6.60	3.60	0.020	0.34	0.45	1.18	0.35	0	2	2
84	Perumampatti	2.46	11.09	8.09	0.020	0.40	0.53	0.61	0.18	1	2	2
85	Pettampatti	2.55	8.74	5.74	0.020	0.29	0.39	0.64	0.19	0	1	2
86	Pilappalli	1.59	7.21	4.21	0.020	0.13	0.18	0.40	0.12	0	1	1
87	Poomandapatti	1.01	11.16	8.16	0.020	0.17	0.22	0.25	0.08	0	1	1
88	Poosaripatti	3.37	8.18	5.18	0.020	0.35	0.46	0.84	0.25	0	2	2
89	Pottipuram	4.30	6.94	3.94	0.020	0.34	0.45	1.08	0.32	0	2	2
90	Pulaveri Agraharam	4.53	11.01	8.01	0.020	0.73	0.97	1.13	0.34	1	3	4
91	Puliyampatti	1.27	5.57	2.57	0.020	0.07	0.09	0.32	0.10	0	0	0
92	Rajapalayam	1.43	7.29	4.29	0.020	0.12	0.16	0.36	0.11	0	1	1

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
93	Rakkippatti	2.29	11.77	8.77	0.020	0.40	0.53	0.57	0.17	1	2	2
94	Ramapuram	0.83	6.49	3.49	0.020	0.06	0.08	0.21	0.06	0	0	0
95	Reddipatti	0.58	5.42	2.42	0.020	0.03	0.04	0.14	0.04	0	0	0
96	Reddipatti	2.14	5.97	2.97	0.020	0.13	0.17	0.54	0.16	0	1	1
97	Sakkarasettipatti	3.38	8.04	5.04	0.020	0.34	0.45	0.84	0.25	0	2	2
98	Saminayakkampatti	1.53	5.85	2.85	0.020	0.09	0.12	0.38	0.11	0	0	0
99	Sangitappatti	1.49	9.34	6.34	0.020	0.19	0.25	0.37	0.11	0	1	1
100	Sarkar Gollappatti	1.51	8.98	5.98	0.020	0.18	0.24	0.38	0.11	0	1	1
101	Sekkarapatti	5.37	6.44	3.44	0.020	0.37	0.49	1.34	0.40	0	2	2
102	Sekkarapatti	1.29	8.89	5.89	0.020	0.15	0.20	0.32	0.10	0	1	1
103	Semmandappatti	10.02	7.09	4.09	0.020	0.82	1.09	2.50	0.75	1	4	4
104	Senaipalayam	1.73	6.44	3.44	0.020	0.12	0.16	0.43	0.13	0	1	1
105	Sevampalayam	0.96	6.16	3.16	0.020	0.06	0.08	0.24	0.07	0	0	0
106	Sikkampatti	5.23	8.42	5.42	0.020	0.57	0.75	1.31	0.39	1	3	3

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
107	Sikkanampatti	4.14	8.46	5.46	0.020	0.45	0.60	1.03	0.31	1	2	2
108	Sittaneri	1.07	8.77	5.77	0.020	0.12	0.16	0.27	0.08	0	1	1
109	Sittanur Gollapatti	0.97	9.94	6.94	0.020	0.14	0.18	0.24	0.07	0	1	1
110	Sorakkappatti	2.20	6.50	3.50	0.020	0.15	0.20	0.55	0.16	0	1	1
111	T.Maramangalam	3.96	3.21	0.21	0.020	0.02	0.02	0.99	0.30	0	0	0
112	Tattayangarpatti	7.65	6.85	3.85	0.020	0.59	0.78	1.91	0.57	1	3	3
113	Tattyanpatti	2.14	6.76	3.76	0.020	0.16	0.21	0.54	0.16	0	1	1
114	Tekkampatti	1.81	7.46	4.46	0.020	0.16	0.22	0.45	0.14	0	1	1
115	Thanakuttipalayam	0.57	9.48	6.48	0.020	0.07	0.10	0.14	0.04	0	0	0
116	Tindamangalam	5.03	5.28	2.28	0.020	0.23	0.30	1.26	0.38	0	1	1
117	Tumbatulipatti	2.10	10.48	7.48	0.020	0.31	0.42	0.53	0.16	0	1	2
118	Tumbipadi	14.20	12.19	9.19	0.020	2.61	3.47	3.55	1.07	3	12	14
119	Umbilika Maramangalam	2.97	3.93	0.93	0.020	0.06	0.07	0.74	0.22	0	0	0
120	Utamasolapuram	4.73	9.02	6.02	0.020	0.57	0.76	1.18	0.35	1	3	3

S.No	Village Name	Area (Sq Km)	Average post-monsoon water level (m)	Unsaturated zone (m)	Average SP Yield (%)	Sub-surface storage (mcm)	Surface water required (mcm)	Surface water (Run-off) available (mcm)	Non-committed Run-off (mcm)	Percolation tank	CD/Recharge shaft/ Tube well	NB/ CP
121	Vaniyambadi	3.04	10.81	7.81	0.020	0.47	0.63	0.76	0.23	1	2	3
122	Velanattam	0.55	9.88	6.88	0.020	0.08	0.10	0.14	0.04	0	0	0
123	Vellakkalpatti	3.94	6.82	3.82	0.020	0.30	0.40	0.99	0.30	0	1	2
124	Vellalapatti	5.25	6.70	3.70	0.020	0.39	0.52	1.31	0.39	1	2	2
125	Veppilai	16.85	3.55	0.55	0.020	0.19	0.25	4.21	1.26	0	1	1
126	Virapandi	7.17	4.82	1.82	0.020	0.26	0.35	1.79	0.54	0	1	1
	Total	550.73	1014.44	636.44	2.52	52.75	70.15	137.68	41.30	53.00	251.00	282.00

Table: 5.1b Cost Estimaiton for the proposed Supply side management plan

Village Name	Volume of Water required for recharge (MCM)	Percolation Tanks structure Nos	cost (crores)	NB/ CP structure Nos	cost (crores)	CD/Recharge shaft/ Tube well	cost (crores)	Renovation of Village Pondsstructure Nos	cost (crores)	Total Cost of RS in crores
Akkaraipalayam	0.53	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Anaikavundanpatti	0.06	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Ariyakkavundanpatti	0.55	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Ariyampalayam	0.31	0	0.00	1	0.10	1	0.05	1	0.02	0.17

Village Name	Volume of Water required for recharge (MCM)	Percolation Tanks structure Nos	cost (crores)	NB/ CP structure Nos	cost (crores)	CD/Recharge shaft/ Tube well	cost (crores)	Renovation of Village Pondsstructure Nos	cost (crores)	Total Cost of RS in crores
Attavanai Pulaveri	0.10	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Attayampatti	0.24	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Bairoji Agraharam	1.34	1	0.20	5	0.50	5	0.25	1	0.02	0.97
Balbakki	0.58	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Basuvanattampatti	0.30	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Chellapillaikuttai	1.30	1	0.20	5	0.50	5	0.25	1	0.02	0.97
Chennagiri	0.83	1	0.20	3	0.30	3	0.15	1	0.02	0.67
Chettipatti	0.48	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Chinna Siragappadi	0.41	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Danishpet	2.59	3	0.60	10	1.00	9	0.45	1	0.02	2.07
Darapuram	0.95	1	0.20	4	0.40	3	0.15	1	0.02	0.77
Dasagasamudram	0.26	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Divattippatti	0.94	1	0.20	4	0.40	3	0.15	1	0.02	0.77
Elattur	0.16	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Elavadi	0.44	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Erachinampatti	0.36	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Eravadi Pettampatti	0.35	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Ettikuttaipatti	0.45	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Ettimanickampatti	0.65	1	0.20	3	0.30	2	0.10	1	0.02	0.62
Gobinathapuram	0.34	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Gollappatti	0.22	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Gundukkal	2.27	2	0.40	9	0.90	8	0.40	1	0.02	1.72
Ilampillai	0.33	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Jagadevempatti	0.15	0	0.00	1	0.10	1	0.05	1	0.02	0.17

Village Name	Volume of Water required for recharge (MCM)	Percolation Tanks structure Nos	cost (crores)	NB/ CP structure Nos	cost (crores)	CD/Recharge shaft/ Tube well	cost (crores)	Renovation of Village Pondsstructure Nos	cost (crores)	Total Cost of RS in crores
Kadathur Agraharam	0.69	1	0.20	3	0.30	2	0.10	1	0.02	0.62
Kadayampatti	2.69	3	0.60	11	1.10	9	0.45	1	0.02	2.17
Kalparappatti	0.22	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Kamalapuram	0.69	1	0.20	3	0.30	2	0.10	1	0.02	0.62
Kaminayakkanpatti	0.12	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Kanavoipudur	0.05	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Kanjanayakkanpatti	2.17	2	0.40	9	0.90	8	0.40	1	0.02	1.72
Karadiyur	0.42	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Karichipatti	0.48	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Karuppanampatti	0.14	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Karuppur	0.98	1	0.20	4	0.40	3	0.15	1	0.02	0.77
Kattaperiyampatti	0.02	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Keerapappampadi	0.43	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Ketunayakkampatti Pudur	0.05	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Kolagur	0.29	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Kombadipatti	0.12	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Kongupatti (North)(kongupatti south)	4.20	4	0.80	17	1.70	15	0.75	1	0.02	3.27
Kottaimettupatti	0.61	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Kottakkavundampatti	0.23	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Kottanur	0.43	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Kukuttaipatti	2.19	2	0.40	9	0.90	8	0.40	1	0.02	1.72

Village Name	Volume of Water required for recharge (MCM)	Percolation Tanks structure Nos	cost (crores)	NB/ CP structure Nos	cost (crores)	CD/Recharge shaft/ Tube well	cost (crores)	Renovation of Village Pondsstructure Nos	cost (crores)	Total Cost of RS in crores
Kullamanayakanpatti	0.39	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Kullanampatti	0.36	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Laguvampatti	0.20	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Mailappalaiyam	0.32	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Mallaravuthanpatti	0.15	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Mankuppai	0.16	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Marakkottai	2.51	3	0.60	10	1.00	9	0.45	1	0.02	2.07
Maramangalattupatti	0.48	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Marulayampalayam	0.19	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Muduthurai	0.13	0	0.00	1	0.10	0	0.00	1	0.02	0.12
Mukkanur	1.07	1	0.20	4	0.40	4	0.20	1	0.02	0.82
Mungilpadi	0.37	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Murungapatti	0.48	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Muthunayakanpatti	1.73	2	0.40	7	0.70	6	0.30	1	0.02	1.42
Muttanampalyam	0.15	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Nachchanampatti	0.39	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Naduppatti	1.00	1	0.20	4	0.40	4	0.20	1	0.02	0.82
Nallampatti	0.45	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Nallarayyampatti	0.33	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Naranampalayam	0.10	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Nayakkanpatti	0.20	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Nayinampatti	0.15	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Neikkarapatti	0.36	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Omalur	0.02	0	0.00	0	0.00	0	0.00	1	0.02	0.02

Village Name	Volume of Water required for recharge (MCM)	Percolation Tanks structure Nos	cost (crores)	NB/ CP structure Nos	cost (crores)	CD/Recharge shaft/ Tube well	cost (crores)	Renovation of Village Pondsstructure Nos	cost (crores)	Total Cost of RS in crores
P.Kalippatti	0.09	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Pachchanampatti	0.89	1	0.20	4	0.40	3	0.15	1	0.02	0.77
Pagalpatti	1.43	1	0.20	6	0.60	5	0.25	1	0.02	1.07
Palampatti	0.14	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Palappallikombai	0.07	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Pannappatti	1.09	1	0.20	4	0.40	4	0.20	1	0.02	0.82
Papparapatti	0.23	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Parappatti	1.06	1	0.20	4	0.40	4	0.20	1	0.02	0.82
Peria Siragappadi	0.49	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Periyerippatti	0.45	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Perumampatti	0.53	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Pettampatti	0.39	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Pilappalli	0.18	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Poomandapatti	0.22	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Poosaripatti	0.46	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Pottipuram	0.45	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Pulaveri Agraharam	0.97	1	0.20	4	0.40	3	0.15	1	0.02	0.77
Puliyampatti	0.09	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Rajapalayam	0.16	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Rakkippatti	0.53	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Ramapuram	0.08	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Reddipatti	0.04	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Reddipatti	0.17	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Sakkarasettipatti	0.45	0	0.00	2	0.20	2	0.10	1	0.02	0.32

Village Name	Volume of Water required for recharge (MCM)	Percolation Tanks structure Nos	cost (crores)	NB/ CP structure Nos	cost (crores)	CD/Recharge shaft/ Tube well	cost (crores)	Renovation of Village Pondsstructure Nos	cost (crores)	Total Cost of RS in crores
Saminayakkampatti	0.12	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Sangitappatti	0.25	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Sarkar Gollappatti	0.24	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Sekkarapatti	0.49	0	0.00	2	0.20	2	0.10	1	0.02	0.32
Sekkarapatti	0.20	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Semmandappatti	1.09	1	0.20	4	0.40	4	0.20	1	0.02	0.82
Senaipalayam	0.16	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Sevampalayam	0.08	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Sikkampatti	0.75	1	0.20	3	0.30	3	0.15	1	0.02	0.67
Sikkanampatti	0.60	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Sittaneri	0.16	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Sittanur Gollapatti	0.18	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Sorakkappatti	0.20	0	0.00	1	0.10	1	0.05	1	0.02	0.17
T.Maramangalam	0.02	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Tattayangarpatti	0.78	1	0.20	3	0.30	3	0.15	1	0.02	0.67
Tattyanpatti	0.21	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Tekkampatti	0.22	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Thanakuttipalayam	0.10	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Tindamangalam	0.30	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Tumbatulipatti	0.42	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Tumbipadi	3.47	3	0.60	14	1.40	12	0.60	1	0.02	2.62
Umbilika Maramangalam	0.07	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Utamasolapuram	0.76	1	0.20	3	0.30	3	0.15	1	0.02	0.67

Village Name	Volume of Water required for recharge (MCM)	Percolation Tanks structure Nos	cost (crores)	NB/ CP structure Nos	cost (crores)	CD/Recharge shaft/ Tube well	cost (crores)	Renovation of Village Pondsstructure Nos	cost (crores)	Total Cost of RS in crores
Vaniyambadi	0.63	1	0.20	3	0.30	2	0.10	1	0.02	0.62
Velanattam	0.10	0	0.00	0	0.00	0	0.00	1	0.02	0.02
Vellakkalpatti	0.40	0	0.00	2	0.20	1	0.05	1	0.02	0.27
Vellalapatti	0.52	1	0.20	2	0.20	2	0.10	1	0.02	0.52
Veppilai	0.25	0	0.00	1	0.10	1	0.05	1	0.02	0.17
Virapandi	0.35	0	0.00	1	0.10	1	0.05	1	0.02	0.17
TOTAL	70.1549357	53	10.6	282	28.2	251	12.55	126	2.52	53.87

5.2 Village wise Drinking water supply plan:

There are 75 village panchayat comes under three blocks of the study area. Based on the outcome of chemical analysis results of water samples collected from Aquifer I and Aquifer II during pre and post monsoon period, it has been identified safe i.e. Fluoride concentration with in permissible limit of Aquifer I and Aquifer II. It has also been identified Fluoride affected Aquifer I and Aquifer II i.e. beyond permissible limit. CGWB during FY 2023-24 has constructed 8 high yield exploratory wells in 8 village panchayat which has Fluoride range within permissible limit; these 8 high yield wells may supply water to nearest 21 villages, while adding CGWB exploratory wells for water supply to villages it will definitely reduce the demand and supply gap in 8 village panchayat. In other villages by ensuring Combined water supply scheme drinking water need may be managed effectively. Village panchayat wise recommendations have been given as per the table below, the same is represented in Fig.5.1

Alternate sources for drinking water in Fluoride Affected areas

The occurrence of fracture range between 19 mbgl to 180 mbgl has been observed, the yield in Biotite Gneiss has the highest discharge of 25 lps observed in Chennagiri panchayath of Veerapandi block, Pulavari and attayampatty panchayath also has high discharge well of more than 12 lps. In charnockite area Kongupatty, Pannapatty and Karuvalli panchayath of Kadayampatty block has the highest yield of 18 lps, 8.4 lps and and 5.5 lps respectively.

CGWB has constructed 10 high discharge and 10 medium discharge exploratory wells successfully in three blocks. The exploratory bore well locations had selected after hydrogeological field observations and through Geophysical subsurface investigation. The selected exploratory wells sites were finalized after discussions with district administration & local representative of concerned panchayath.

The high discharge exploratory wells constructed by CGWB (details of exploratory wells given below table) may be pumped and supplied by concerned panchayath for drinking & domestic purposes. High yield wells are presented in Fig.5.2 and Table 5.2

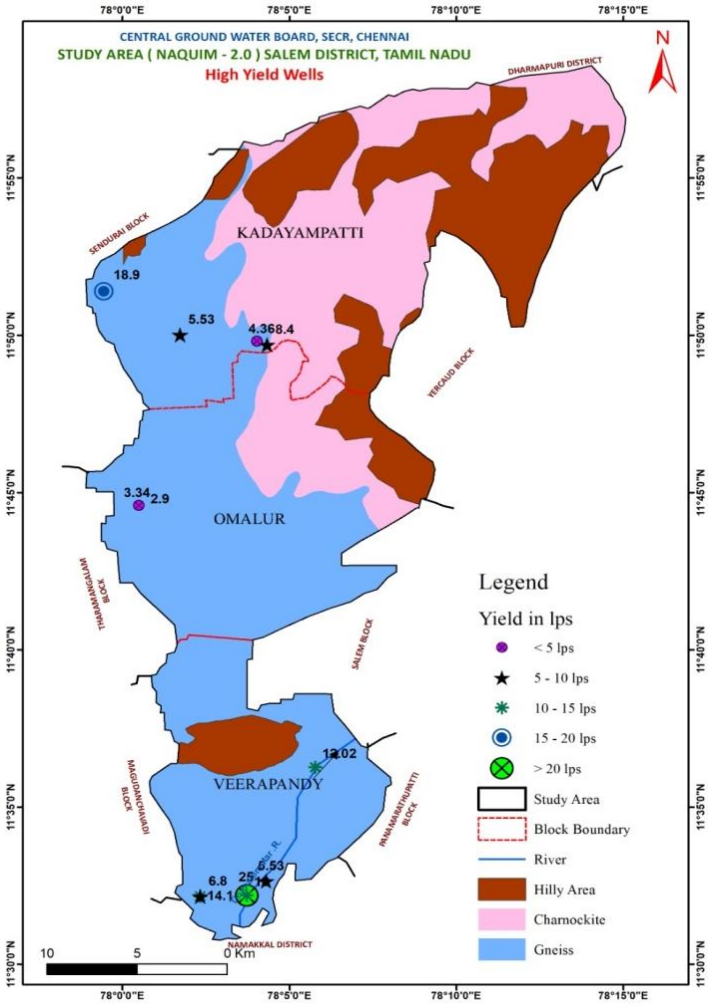


Fig.5.1 High Yield wells with discharge in the study area

Table 5.2 High Yield wells along with fracture depth details in the study area

S. No	Location	Block	Latitude	Longitude	Total depth drilled in M	Fracture depth mbgl	Casing M	EC µS/cm	F mg/l	Yield lps	Formation
1	Ettimanicampatty	Veerapandi	11.558315	78.043331	286.7	19-20, 134-135	9	2940	1.13	1.8	Biotite Granite Gneiss
2	Attayampatty EW	Veerapandi	11.5358	78.03882	127.1	55-56, 127-127.1	6	2120	1.55	14.1	Biotite Gneiss
3	Chennagiri EW	Veerapandi	11.536434	78.06214	155.6	14-15, 155-155.5	12	6520	1.19	25	Biotite Granite Gneiss
4	Pichampalayam	Veerapandi	11.54393	78.0716	215	20, 63, 92, 180 & 210	10	4080	0.8	5.53	Biotite Gneiss
5	Kongupatty	Kadayampatty	11.856457	77.990708	184	182	8.87	1130	1.3	18.9	Charnockite
6	Ramapuram	Veerapandi	11.591383	78.010961	201	26, 59 & 78	9	3400	3.2	4.36	Biotite Gneiss
7	Chinnatirupathy (Karuvalli)	Kadayampatty	11.833425	78.028782	200	16, 23, 33 & 112	6.1	2960	2.2	5.53	Biotite Gneiss
8	Thindamangalam	Omalur	11.742978	78.00819	200	18, 54	11	3000	1.16	3.34	Biotite Gneiss
9	Pannapatty	Kadayampatty	11.82821	78.07215	122	120	6.6	1963	0.579	8.4	Biotite Gneiss
10	Pulavari	Veerapandi	11.749971	78.106372	182	18, 54, 180	12.5	6970	1	12.02	Biotite Granite Gneiss

Table 5.3 Village Panchayat wise management plan:

Sl. No	Block	Village panchayat	Fluoride range between 1 mg/l and 1.5mg/l Yes/No	Fluoride range more than 1.5mg/l Yes/No	Recommendations
1	Veerapandi	Akkarapalayam	Yes	No	CGWB EW & Local sources
2	Veerapandi	Aanaikuttapatty	Yes	No	CWSS & Local sources
3	Veerapandi	Aarigoundampatty	Yes	No	CWSS & Local sources
4	Veerapandi	Cennagiri	Yes	No	CGWB EW & Local sources
5	Veerapandi	Ettimanickampatty	Yes	No	CGWB EW & Local sources
6	Veerapandi	Inampiroji	Yes	No	CGWB EW & Local sources
7	Veerapandi	Kadathur	Yes	No	CGWB EW & Local sources
8	Veerapandi	Kalparapatty	No	Yes	CWSS only
9	Veerapandi	Keeraipappampady	Yes	No	CWSS & Local sources
10	Veerapandi	Maramangalathupatty	Yes	No	CWSS & Local sources
11	Veerapandi	Marulaiyampalayam	Yes	No	CGWB EW
12	Veerapandi	Mooduthurai	Yes	No	CWSS & Local sources
13	Veerapandi	Murungapatty	Yes	No	CWSS & Local sources
14	Veerapandi	S.Papparapatty	Yes	No	CGWB EW
15	Veerapandi	Periya Seeragapadi	Yes	No	CWSS & Local sources
16	Veerapandi	Perumampatty	Yes	No	CWSS & Local sources
17	Veerapandi	Perumagoundampatty	No	Yes	CWSS only
18	Veerapandi	Pulavari	Yes	No	CGWB EW & Local sources
19	Veerapandi	Puthur	Yes	No	CWSS & Local sources
20	Veerapandi	Rakkipatty	Yes	No	CWSS & Local sources
21	Veerapandi	Rajapalayam	No	Yes	CWSS only
22	Veerapandi	Senaipalayam	No	Yes	CWSS only
23	Veerapandi	Uthamasolapuram	Yes	No	CWSS & Local sources
24	Veerapandi	Veerapandi	No	Yes	CWSS
25	Veerapandi	Vembadithalam	Yes	No	CWSS & Local sources
26	Omalur	Balpakki	No	Yes	CWSS only
27	Omalur	Kamalapuram	Yes	No	CWSS & Local sources
28	Omalur	Pottiapuram	Yes	No	CWSS & Local sources
29	Omalur	Sakkarachettypatti	Yes	No	CWSS & Local sources
30	Omalur	Sikkanampatty	Yes	No	CWSS & Local sources
31	Omalur	Tathiyampatty	Yes	No	CWSS & Local sources
32	Omalur	Thumbipadi	Yes	No	CWSS & Local sources
33	Omalur	Periyeripatty	No	Yes	CWSS only
34	Omalur	Pachinampatty	Yes	No	CWSS & Local sources

Sl. No	Block	Village panchayat	Fluoride range between 1 mg/l and 1.5mg/l Yes/No	Fluoride range more than 1.5mg/l Yes/No	Recommendations
35	Omalur	Tholasampatty	Yes	No	CWSS & Local sources
36	Omalur	Thindamangalam	Yes	No	CGWB EW & Local sources
37	Omalur	U.Maramangalam	No	Yes	CWSS only
38	Omalur	Kottai Mariamman Kovil	Yes	No	CWSS & Local sources
39	Omalur	Muthunaikanpatty	Yes	No	CWSS & Local sources
40	Omalur	Semman Koodal	Yes	No	CWSS & Local sources
41	Omalur	Sikkampatty	Yes	No	CWSS & Local sources
42	Omalur	M.Chettipatty	Yes	No	CWSS & Local sources
43	Omalur	Pagalpatty	No	Yes	CWSS only
44	Omalur	P.Nallagoundampatty	Yes	No	CWSS & Local sources
45	Omalur	Sellapillaikuttai	Yes	No	CWSS & Local sources
46	Omalur	Vellalapatty	Yes	No	CWSS & Local sources
47	Omalur	Thekkampatty	Yes	No	CWSS & Local sources
48	Omalur	Sangeethapatty	No	Yes	CWSS only
49	Omalur	Moongilpadi	No	Yes	CWSS only
50	Omalur	Naranampalayam	No	Yes	CWSS only
51	Omalur	Gollapatty	Yes	No	CWSS & Local sources
52	Omalur	Kottamettupatty	Yes	No	CWSS & Local sources
53	Omalur	Puliyampatty	Yes	No	CWSS & Local sources
54	Omalur	Ettikuttipatty	Yes	No	CWSS & Local sources
55	Omalur	Manguppai	Yes	No	CWSS & Local sources
56	Omalur	Kottagoundampatty	Yes	No	CWSS & Local sources
57	Omalur	Vellakkalpatty	Yes	No	CWSS & Local sources
58	Omalur	Saminaikanpatty	Yes	No	CWSS & Local sources
59	Kadayampatty	Bommiayampatty	Yes	No	CWSS & Local sources
60	Kadayampatty	Deevattipatty	Yes	No	CWSS & Local sources
61	Kadayampatty	Denishpet	No	Yes	CWSS only
62	Kadayampatty	Dharapuram	Yes	No	CWSS & Local sources
63	Kadayampatty	Gundukal	Yes	No	CWSS & Local sources
64	Kadayampatty	Kanavaiputhur	No	Yes	CWSS only
65	Kadayampatty	Kanjanaikanpatty	Yes	No	CWSS & Local sources
66	Kadayampatty	Karuvalli	Yes	No	CGWB EW & Local sources
67	Kadayampatty	Kongupatty	Yes	No	CGWB EW & Local sources
68	Kadayampatty	Ku.Kuttapatty	Yes	No	CGWB EW & Local sources
69	Kadayampatty	Mookanur	Yes	No	CWSS & Local sources

Sl. No	Block	Village panchayat	Fluoride range between 1 mg/l and 1.5mg/l Yes/No	Fluoride range more than 1.5mg/l Yes/No	Recommendations
70	Kadayampatty	Nadupatty	Yes	No	CGWB EW & Local sources
71	Kadayampatty	Pannapatty	Yes	No	CGWB EW & Local sources
72	Kadayampatty	Poosaripatty	Yes	No	CWSS & Local sources
73	Kadayampatty	Semmandapatty	Yes	No	CWSS & Local sources
74	Kadayampatty	Umbilikampatty	Yes	No	CWSS & Local sources
75	Kadayampatty	Veppilai	Yes	No	CWSS & Local sources

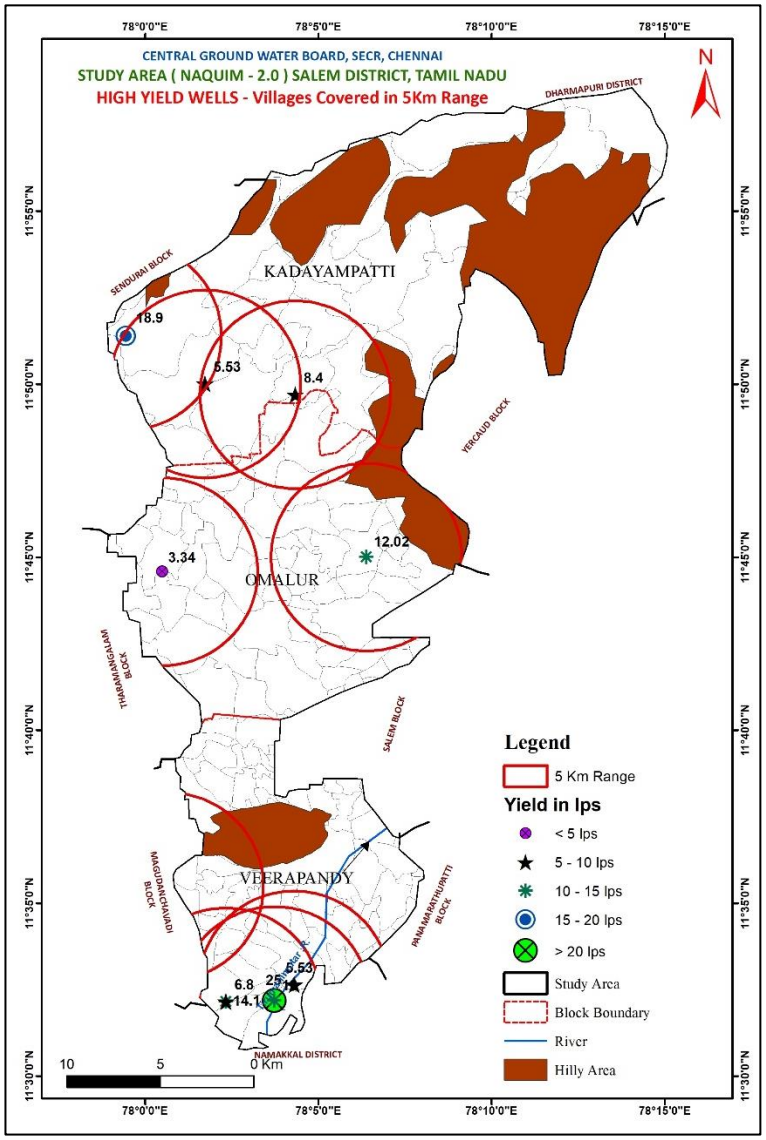


Fig.5.3 Drinking water supply plan

- There are villages in three blocks facing scarcity of receiving safe drinking water regularly. Mostly local administration is managing in supplying of drinking water with its own sources neither bore well nor dug well. In few places blending of Cauvery water and local sources water is commonly practice is observed.
- After analyzing the water samples collected from 563 locations of three blocks. Fluoride free (with in desirable limit) ground water sources identified in 55 panchayath of Aquifer-I and 60 panchayath of Aquifer-II. Local administrations may consider such safe ground water sources for supply of drinking purpose.
- It has been observed that 20 panchayath Aquifer-I and 15 panchayath Aquifer-II in three blocks has fluoride more than permissible limit i.e. >1.5mg/l such ground water sources need to be avoided to prevent complications due to Fluoride.
- Ground water quality is highly contaminated, polluted (high EC, pH, turbidity and odour in water) around Tirumanimuttar river Uthamasolapuram, Akkarapalayam and Pulavari panchayath of Veerapandi block due to Salem city discharging its drainage sewage waste into river may be treated by STP system before it reaches river.
- In Omalur block, Vellalapatty, Gollapatty, Thekampatty, Sangeethapatty, Ettikuttapatty, Naranampalayam, Karuppar and S. Chettipatty panchayath farmers cultivating sugarcane using ground water (Dug well & Bore well) throughout year may consider for crop rotation according to the instructions given by Agriculture department in view of minimising ground water extraction as it is already OE category.
- Further, CGWB has constructed 25 exploratory bore wells in places where scarcity of drinking water may be utilised instantly. The discharge ranging from 1.8 to 25 lps
- Micro irrigation technique may be adopted in larger scale in three blocks to conserve ground water and ensure its sustainability

Annexure – I Pre and Post Monsoon Depth to water Level data in meter below ground level

S.No	Block name	Location	Well Type	Latitude	Longitude	Water level in Mbgl (Pre monsoon) May 2023	Water level in Mbgl (Post monsoon) Jan 2024	Remarks / Wells Monitoring Agency
1	Kadayampatti	Danishpet	DW	11.85807000	78.13841000	9.18	7	WRD
2	Kadayampatti	Danishpet	DW	11.85807000	78.13841000	9.18	7	WRD
3	Kadayampatti	Danishpet	DW	11.85832100	78.13526900	4.9	-	TWAD
4	Kadayampatti	Gundakkal	DW	11.90199000	78.05325000	2.6	5	WRD
5	Kadayampatti	Gundakkal	DW	11.90199000	78.05325000	2.6	5	WRD
6	Kadayampatti	Lokur	DW	11.92134000	78.16571000	6.08	10.5	WRD
7	Kadayampatti	Lokur	DW	11.92134000	78.16571000	6.08	10.5	WRD
8	Kadayampatti	Marakkottai	DW	11.81851000	78.00377000	2.08	4.8	WRD
9	Kadayampatti	Marakkottai	DW	11.81851000	78.00377000	2.08	4.8	WRD
10	Kadayampatti	Nachanampatty	DW	11.88031400	78.08011200	8.2	-	TWAD
11	Kadayampatti	Theevattipatti	DW	11.86725000	78.08409000	4.85	5.6	WRD
12	Kadayampatti	Theevattipatti	DW	11.86725000	78.08409000	4.85	5.6	WRD
13	Kadayampatti	Thinnapatty	DW	11.81544000	78.09425000	7.5	12	WRD
14	Kadayampatti	Thinnapatty	DW	11.81544000	78.09425000	7.5	12	WRD
15	Kadayampatty	Bommiayampatty	DW	11.86895	78.11635	10.1	12.6	Key wells
16	Kadayampatty	Chinnanagalur	DW	11.81246	78.08035	9.7	14.2	Key wells
17	Kadayampatty	Dharapuram	DW	11.7893	78.0474	5.9	6.12	Key wells
18	Kadayampatty	Govindapuram	DW	11.91143	78.18476	6.35	5.76	Key wells
19	Kadayampatty	Kanjanaikanpatty	DW	11.82358	78.0454	8.4	9.45	Key wells
20	Kadayampatty	Kongupatty	DW	11.86038	78.02186	9.7	14.12	Key wells
21	Kadayampatty	Mookanur	DW	11.8575	78.05289	7.55	9.42	Key wells
22	Kadayampatty	Morur	DW	11.94682	78.20115	8.85	-	Key wells

S.No	Block name	Location	Well Type	Latitude	Longitude	Water level in Mbgl (Pre monsoon) May 2023	Water level in Mbgl (Post monsoon) Jan 2024	Remarks / Wells Monitoring Agency
23	Kadayampatty	Nadupatty	DW	11.88228	78.09211	7.1	11.08	Key wells
24	Kadayampatty	Natchinam patty	DW	11.87532	78.08498	4.85	6.21	Key wells
25	Kadayampatty	Palayur	DW	11.89008	78.04504	7.45	10.74	Key wells
26	Kadayampatty	Pannapatty	DW	11.82821	78.07215	4.1	8.75	Key wells
27	Kadayampatty	Periyavadagampatty	DW	11.87797	78.14736	6.7	7.72	Key wells
28	Kadayampatty	Poosaripatty	DW	11.83684	78.06397	6.4	7.33	Key wells
29	Kadayampatty	Puthukaruvalli	DW	11.84368	78.02971	8.4	16.1	Key wells
30	Kadayampatty	Semmandapatty	DW	11.79189	78.03256	9.45	9.35	Key wells
31	Kadayampatty	Umbilikampatty	DW	11.9002	78.10994	5.55	8.25	Key wells
32	Omalur	Ellayur	DW	11.7055	78.01579	5.2	9.1	Key wells
33	Omalur	Ettikuttipatty	DW	11.74266	78.07607	7.9	11.2	Key wells
34	Omalur	Ganapathypalayam	DW	11.67151000	78.05438000	5.8	7	WRD
35	Omalur	Ganapathypalayam	DW	11.67151000	78.05438000	5.8	7	WRD
36	Omalur	Gollapatty	DW	11.73324	78.09296	5.1	7.16	Key wells
37	Omalur	Kamalapuram	DW	11.77768000	78.06439000	4.9	4.5	WRD
38	Omalur	Kamalapuram	DW	11.77768000	78.06439000	4.9	4.5	WRD
39	Omalur	Kamalapuram	DW	11.77091	78.05753	6.2	6.05	Key wells
40	Omalur	Kammampatty	DW	11.90684000	77.99530000	4.1	9.5	WRD
41	Omalur	Kammampatty	DW	11.90684000	77.99530000	4.1	9.5	WRD
42	Omalur	Karuppur	DW	11.70824000	78.09338000	2.08	4.1	WRD
43	Omalur	Karuppur	DW	11.70824000	78.09338000	2.08	4.1	WRD
44	Omalur	Kottagoundampatty	DW	11.71947	78.06901	5.65	6.28	Key wells
45	Omalur	Kottai Mariamman Kovil	DW	11.73555	78.03185	3.4	12.45	Key wells

S.No	Block name	Location	Well Type	Latitude	Longitude	Water level in Mbgl (Pre monsoon) May 2023	Water level in Mbgl (Post monsoon) Jan 2024	Remarks / Wells Monitoring Agency
46	Omalur	Kottamettupatty	DW	11.73365	78.06145	6.6	5.8	Key wells
47	Omalur	Kullanallur	DW	11.73089000	77.93014000	4.8	6.4	WRD
48	Omalur	Kullanallur	DW	11.73089000	77.93014000	4.8	6.4	WRD
49	Omalur	M.Chettipatty	DW	11.73063	78.01023	5.05	7.42	Key wells
50	Omalur	Manguppai	DW	11.69059	78.07678	6.15	6.8	Key wells
51	Omalur	Manjulampallam	DW	11.70868	78.10449	4.85	6.96	Key wells
52	Omalur	Moongilpadi	DW	11.74118	78.1141	6.9	7.15	Key wells
53	Omalur	Muthanaickanpatti	DW	11.71480000	78.02899000	6.4	7.5	WRD
54	Omalur	Muthanaickanpatti	DW	11.71480000	78.02899000	6.4	7.5	WRD
55	Omalur	Muthunaikanpatty	DW	11.71889	78.0347	2.75	3.65	Key wells
56	Omalur	Naranampalayam	DW	11.75793	78.07327	6.8	9.1	Key wells
57	Omalur	Omalur	DW	11.74054000	78.04448000	6.9	7.5	WRD
58	Omalur	Omalur	DW	11.74054000	78.04448000	6.9	7.5	WRD
59	Omalur	Omalur	DW	11.73549700	78.03872800	6.4	-	TWAD
60	Omalur	P.Nallagoundampatty	DW	11.69522	78.06216	4.1	7.67	Key wells
61	Omalur	Pachinampatty	DW	11.732	78.01401	3.4	9.1	Key wells
62	Omalur	Pagalpatty	DW	11.68727	78.0643	13.65	14.35	Key wells
63	Omalur	Palpakki	DW	11.76038000	78.04048000	5.15	7.7	WRD
64	Omalur	Palpakki	DW	11.76038000	78.04048000	5.15	7.7	WRD
65	Omalur	Panankattur	DW	11.74971	78.01115	4.9	5.71	Key wells
66	Omalur	Panjukalipatty	DW	11.768438	78.012568	4.3	4.35	Key wells
67	Omalur	Periyeripatty	DW	11.73284	77.97954	5.85	5.27	Key wells
68	Omalur	Poonagalur	DW	11.75732	78.042	5.8	8.33	Key wells

S.No	Block name	Location	Well Type	Latitude	Longitude	Water level in Mbgl (Pre monsoon) May 2023	Water level in Mbgl (Post monsoon) Jan 2024	Remarks / Wells Monitoring Agency
69	Omalur	Pottiapuram	DW	11.77626	78.06822	7.1	6.21	Key wells
70	Omalur	Puliyampatty	DW	11.73219	78.06002	3.4	4.9	Key wells
71	Omalur	Sakkarachettypatti	DW	11.77485	78.09283	5.95	6.54	Key wells
72	Omalur	Saminaikanpatty	DW	11.70945	78.08463	6.8	6.16	Key wells
73	Omalur	Sangeethapatty	DW	11.73314	78.09104	7.9	9.68	Key wells
74	Omalur	Sarakapillayur	DW	11.82069	78.08904	17.25	11.07	Key wells
75	Omalur	Sellapillaikuttai	DW	11.71999	78.05253	4.85	8.83	Key wells
76	Omalur	Sikkampatty	DW	11.70953	77.98689	6.85	8.98	Key wells
77	Omalur	Sikkanampatty	DW	11.79576	78.05788	7.65	8.21	Key wells
78	Omalur	Tathiyampatty	DW	11.77292	78.06539	4.3	4.42	Key wells
79	Omalur	Tekkampatti	DW	11.74604000	78.11496000	13.4	6.9	WRD
80	Omalur	Tekkampatti	DW	11.74604000	78.11496000	13.4	6.9	WRD
81	Omalur	Thekkampatty	DW	11.746447	78.116595	7.4	7.82	Key wells
82	Omalur	Thindamangalam	DW	11.74528000	78.01293000	2.4	3	WRD
83	Omalur	Thindamangalam	DW	11.74528000	78.01293000	2.4	3.6	WRD
84	Omalur	Tholasampati	DW	11.75373000	77.97529000	1.38	2.4	WRD
85	Omalur	Tholasampati	DW	11.75373000	77.97529000	1.38	2.4	WRD
86	Omalur	Tholasampatty	DW	11.75385	77.97525	2.25	2.52	Key wells
87	Omalur	Vellalapatty	DW	11.7527	78.09853	3.1	5.18	Key wells
88	Veerapandi	Aanaikuttapatty	DW	11.57048	78.01972	6.4	8.16	Key wells
89	Veerapandi	Aarigoundampatty	DW	11.63841	78.02571	8.65	11.07	Key wells
90	Veerapandi	Abraham lingan st	DW	11.528287	78.058258	7.2	8.66	Key wells
91	Veerapandi	Attayampatty	DW	11.57429800	78.07245700	8.1	-	TWAD

S.No	Block name	Location	Well Type	Latitude	Longitude	Water level in Mbgl (Pre monsoon) May 2023	Water level in Mbgl (Post monsoon) Jan 2024	Remarks / Wells Monitoring Agency
92	Veerapandi	Cennagiri	DW	11.53974	78.06109	6.6	6.33	Key wells
93	Veerapandi	Ettimanickampatty	DW	11.55583	78.04504	5.9	7.7	Key wells
94	Veerapandi	Kalparapatty	DW	11.58735	78.03078	3.1	3.62	Key wells
95	Veerapandi	Kanakupillai kadu	DW	11.61331	78.09836	6.5	7.7	Key wells
96	Veerapandi	Kattur	DW	11.67076	78.04753	4.45	6.8	Key wells
97	Veerapandi	Koolipatty	DW	11.55727	78.04611	6.75	10.52	Key wells
98	Veerapandi	Kuttakadu	DW	11.58502	78.06821	6.15	9.68	Key wells
99	Veerapandi	Makkalur	DW	11.58626	78.05359	9.75	11.52	Key wells
100	Veerapandi	Maramangalathupatty	DW	11.67144	78.05436	7.1	8	Key wells
101	Veerapandi	Marulaiyampalayam	DW	11.52546	78.0454	7.45	9.15	Key wells
102	Veerapandi	Mettukadu	DW	11.56389	78.07108	8.3	8.46	Key wells
103	Veerapandi	Murungapatty	DW	11.64123	78.04148	6.7	7.45	Key wells
104	Veerapandi	Nallampatty	DW	11.65709	78.05289	10.1	13.2	Key wells
105	Veerapandi	Perumagoundampatty	DW	11.59507	78.00585	2.6	7.78	Key wells
106	Veerapandi	Perumampatty	DW	11.64075	78.0799	14.95	12.31	Key wells
107	Veerapandi	Pichampalayam	DW	11.54391	78.07157	14.9	13.84	Key wells
108	Veerapandi	Pulavari	DW	11.60558	78.10658	12.9	12.67	Key wells
109	Veerapandi	R.Puthupalayam	DW	11.56054	78.03434	11.1	17.3	Key wells
110	Veerapandi	Rajapalayam	DW	11.55583	78.04504	5.05	5.6	Key wells
111	Veerapandi	Senaipalayam	DW	11.56628	78.02792	5.3	5.86	Key wells
112	Veerapandi	Vayakadu	DW	11.6227	78.11635	2.6	3.16	Key wells
113	Veerapandi	Vembadithalam	DW	11.56944	78.01391	4.68	5.76	Key wells

Annexure-II - Water Quality Analysis data for 1. Pre Monsoon, 2. Intensified and 3. Post Monsoon Sampling Locations

S.No	Block	Village	Latitude	Longitude	Well Type	DEPTH	PH	EC	TH	Ca	Mg	Na	K	CO_3	HCO_3	Cl	SO_4	NO_3	F	U
						In meter		µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
1	Kadayampatty	Bommiayampatty	11.86895	78.11635	BW	303	8.8	1380	420	36	80	115	20	26	311	266	7	73	0.05	0.466
2	Kadayampatty	Deevattipatty	11.87532	78.08498	BW	303	8.6	1805	410	52	68	184	5	25	366	177	216	48	0.02	0.5574
3	Kadayampatty	Denishpet	11.87797	78.14736	BW	197	9	1320	430	32	85	106	5	30	488	128	38	56	0.8	0.8603
4	Kadayampatty	Dharapuram	11.7893	78.0474	BW	212	8.8	2910	595	30	126	391	5	26	403	532	336	21	0.65	0.3148
5	Kadayampatty	Gundukal	11.89008	78.04504	BW	212	8.84	1875	650	48	129	138	3	26	427	284	53	182	1.5	0.3419
6	Kadayampatty	Kanavaiputhur	11.94682	78.20115	BW	212	8.5	2510	920	100	163	161	13	25	397	567	82	99	1.56	1.991
7	Kadayampatty	Kanjanaikanpatty	11.82358	78.0454	BW	197	8.1	2160	670	70	120	184	10	0	189	425	144	224	0.11	0.9665
8	Kadayampatty	Karuvalli	11.84368	78.02971	BW	303	8.76	1643	560	44	109	115	10	26	366	248	67	133	0.78	0.182
9	Kadayampatty	Kongupatty	11.86038	78.02186	BW	258	9	550	175	34	22	39	14	30	122	89	24	33	0.21	1.9904
10	Kadayampatty	Ku.Kuttapatty	11.81246	78.08035	BW	206	8.9	1482	570	36	117	78	10	26	458	220	19	62	0.12	0.314
11	Kadayampatty	Mookanur	11.8575	78.05289	BW	242	8.6	1493	350	76	39	182	2	25	452	177	53	93	0.43	4.087
12	Kadayampatty	Nadupatty	11.88228	78.09211	BW	227	9.1	1772	500	48	92	173	19	33	452	163	206	103	0.65	0.344
13	Kadayampatty	Pannapatty	11.82821	78.07215	BW	182	8.7	2500	500	48	92	345	10	26	360	355	298	186	0.2	1.7105
14	Kadayampatty	Poosaripatty	11.83684	78.06397	BW	76	8.7	2790	680	80	117	322	6	26	458	425	269	161	0.96	0.5868
15	Kadayampatty	Semmandapatty	11.79189	78.03256	BW	182	8.2	3310	950	88	177	334	3	0	220	624	432	206	0.64	1.76282
16	Kadayampatty	Umbilikampatty	11.9002	78.10994	BW	182	8.9	1998	900	68	177	39	10	26	256	305	182	207	0.76	0.81
17	Kadayampatty	Veppilai	11.91143	78.18476	BW	197	9.2	2610	600	40	122	327	5	33	214	709	62	96	1.64	3.498
18	Omalur	Balpakki	11.75732	78.042	BW	197	8.1	1509	600	30	128	62	17	0	305	326	48	3	0.66	0.22498
19	Omalur	Ettikuttipatty	11.74266	78.07607	BW	212	8.8	2330	500	48	92	299	14	26	366	305	312	138	0.95	0.855
20	Omalur	Gollapatty	11.73324	78.09296	BW	212	9	2150	830	96	143	115	11	33	391	475	48	70	1.2	3.3226
21	Omalur	Kamalapuram	11.77091	78.05753	BW	212	8.21	2710	850	76	160	239	3	0	549	496	120	122	0.66	4.70208
22	Omalur	Kottagoundampatty	11.71947	78.06901	BW	197	8.12	2350	740	68	139	207	6	0	366	496	110	112	0.66	2.42658
23	Omalur	Kottai Mariamman Kovil	11.73555	78.03185	BW	212	8.8	1440	220	24	39	230	5	26	391	213	98	12	0.86	10.946
24	Omalur	Kottamettupatty	11.73365	78.06145	BW	212	8.13	2500	750	36	160	230	18	0	317	440	346	35	1.52	0.38013
25	Omalur	M.Chettipatty	11.73063	78.01023	BW	212	8.6	2490	650	68	117	271	5	25	287	503	192	123	1.1	0.421
26	Omalur	Manguppai	11.69059	78.07678	BW	212	8.2	3020	760	44	158	345	9	0	372	482	480	34	0.8	0.922
27	Omalur	Moongilpadi	11.74118	78.1141	BW	212	8.7	1064	435	36	84	41	7	26	183	124	144	76	1.4	0.45688

S.No	Block	Village	Latitude	Longitude	Well Type	DEPTH	PH	EC	TH	Ca	Mg	Na	K	CO_3	HCO_3	Cl	SO_4	NO_3	F	U
						In meter		µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
28	Omalur	Muthunaikanpatty	11.71889	78.0347	BW	212	8.97	1518	400	22	84	161	5	26	403	92	168	144	0.25	1.639
29	Omalur	Naranampalayam	11.75793	78.07327	BW	212	9	1696	500	28	105	154	9	30	409	248	86	99	0.44	0.91319
30	Omalur	P.Nallagoundampatty	11.69522	78.06216	BW	212	9.03	1878	500	56	87	202	5	30	458	213	192	82	0.8	6.5372
31	Omalur	Pachinampatty	11.732	78.01401	BW	212	8.6	1830	300	40	49	276	12	25	305	248	171	161	1.2	1.225
32	Omalur	Pagalpatty	11.68864	78.06359	BW	212	8.99	1794	260	30	45	288	5	26	439	156	216	107	1.4	1.679
33	Omalur	Periyeripatty	11.73284	77.97954	BW	212	9	4580	950	48	202	621	3	30	299	993	523	133	1.55	0.19267
34	Omalur	Pottiapuram	11.77626	78.06822	BW	242	8.12	3200	770	100	126	391	3	0	275	624	365	173	0.02	4.168
35	Omalur	Puliyampatty	11.73219	78.06002	BW	242	8.1	2880	880	56	180	253	8	0	427	422	384	124	1.4	6.11
36	Omalur	Sakkarachettypatti	11.77485	78.09283	BW	227	9	1523	300	16	63	207	13	30	281	191	240	14	0.04	0.98414
37	Omalur	Saminaikanpatty	11.70945	78.08463	BW	242	9.02	2310	460	52	80	317	12	30	433	362	168	153	1.5	0.33256
38	Omalur	Sangeethapatty	11.73314	78.09104	BW	212	8.2	1580	490	36	97	129	21	0	305	291	43	118	0.82	0.10636
39	Omalur	Sellapillaikuttai	11.71999	78.05253	BW	197	8.9	1534	245	38	36	235	8	26	244	142	317	45	0.65	0.6005
40	Omalur	Semman Koodal	11.7055	78.01579	BW	258	8.7	2090	560	32	117	223	3	26	342	213	326	155	0.86	0.033
41	Omalur	Sikkampatty	11.70953	77.98689	BW	212	8.76	1526	325	14	70	196	8	26	220	319	106	21	1.2	1.8265
42	Omalur	Sikkanampatty	11.79576	78.05788	BW	212	8.1	1963	540	60	95	202	3	0	275	425	110	53	1.3	0.3028
43	Omalur	Tathiyampatty	11.77292	78.06539	BW	212	9	2510	810	44	170	207	10	30	330	461	211	163	1.62	0.67319
44	Omalur	Thekkampatty	11.74741	78.22421	BW	212	9.1	1306	410	20	87	110	5	33	183	248	72	102	0.86	2.08
45	Omalur	Thindamangalam	11.74971	78.01115	BW	212	7.3	1416	240	56	24	198	36	0	506	96	91	81	0.04	0.7099
46	Omalur	Tholasampatty	11.75385	77.97525	BW	242	8.4	2170	800	80	146	127	1	13	262	539	86	9	0.82	1.16985
47	Omalur	Thumbipadi	11.82069	78.08904	BW	182	8.2	1047	400	26	81	62	6	0	305	142	48	53	0.756	0.0882
48	Omalur	U.Maramangalam	11.75711	78.98742	BW	182	8.2	1884	430	20	92	225	16	0	366	355	67	74	1.4	1.4742
49	Omalur	Vellakkalpatty	11.70868	78.10449	BW	212	9.22	1273	460	6	108	81	4	30	366	177	48	50	1.6	0.67895
50	Omalur	Vellalapatty	11.7527	78.09853	BW	212	8.6	1420	460	30	94	115	6	20	305	248	58	74	0.02	0.88
51	Veerapandi	Aanaikuttapatty	11.58735	78.03078	BW	152	8.55	3140	530	24	114	483	9	20	372	815	120	16	1.7	2.1478
52	Veerapandi	Aarigoundampatty	11.635863	78.02689	BW	182	8.81	1626	500	36	100	138	8	26	397	294	58	19	0.21	0.16278
53	Veerapandi	Cennagiri	11.56389	78.07108	BW	152	8.22	9470	3250	200	668	690	8	0	470	2563	488	310	0.95	1.88656
54	Veerapandi	Chettikadu	11.52546	78.0454	BW	152	8.58	1476	530	46	101	83	21	20	366	230	48	74	0.92	0.46775
55	Veerapandi	Ettimanickampatty	11.67938	78.0429	BW	152	8.92	2100	460	44	85	276	5	25	488	355	53	141	1.2	0.06984
56	Veerapandi	Inampiroji	11.56781	78.06311	BW	212	8.41	2270	710	64	134	196	4	14	214	503	158	102	0.21	3.32904

S.No	Block	Village	Latitude	Longitude	Well Type	DEPTH	PH	EC	TH	Ca	Mg	Na	K	CO_3	HCO_3	Cl	SO_4	NO_3	F	U
						In meter		µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
57	Veerapandi	Kadathur	11.55727	78.04611	BW	152	8.81	3150	720	64	136	391	12	26	458	709	168	43	0.8	1.79568
58	Veerapandi	Kalparapatty	11.56628	78.02792	BW	152	8.8	993	325	30	61	78	6	26	195	142	134	2	0.02	1.258
59	Veerapandi	Keeraipappampady	11.6696	78.05029	BW	121	8.75	1552	300	32	53	219	12	25	354	213	53	180	0.24	1.364
60	Veerapandi	Marulaiyampalayam	11.53974	78.06109	BW	152	8.44	3850	590	72	100	621	6	19	488	971	154	22	0.05	3.44719
61	Veerapandi	Mooduthurai	11.65709	78.05289	BW	167	9.21	2540	430	28	87	391	8	33	671	425	106	28	1.1	1.49785
62	Veerapandi	Murungapatty	11.64123	78.04148	BW	152	9.07	2470	630	32	134	276	2	30	629	461	58	15	0.62	0.04423
63	Veerapandi	Periya Seeragapadi	11.58489	78.05653	BW	227	9.03	1099	375	10	85	81	1.2	30	366	142	38	19	0.62	3.8191
64	Veerapandi	Perumagoundampatty	11.59507	78.00585	BW	152	9.19	2750	480	24	102	414	3	30	610	546	96	22	1.72	1.17748
65	Veerapandi	Perumampatty	11.643034	78.07445	BW	152	8.81	1985	800	40	170	92	8	20	458	355	106	23	0.46	2.21354
66	Veerapandi	Pulavari	11.60558	78.10658	BW	152	8.1	7310	3000	240	583	276	13	0	293	2233	149	86	0.89	1.77411
67	Veerapandi	Rakkipatty	11.55583	78.04504	BW	152	8.97	1982	730	84	126	115	5	26	305	390	77	124	0.6	2.5487
68	Veerapandi	Senaipalayam	11.56054	78.03434	BW	152	8.74	1491	450	52	78	138	8	26	488	202	38	43	1.25	1.115
69	Veerapandi	Uthamasolapuram	11.61331	78.09836	BW	242	8.23	6300	2300	96	501	391	8	0	268	1950	120	82	0.32	0.0562
70	Veerapandi	Vayakadu	11.62368	78.10637	BW	212	9.17	3960	770	40	163	575	4	33	885	744	216	26	1.3	1.23785
71	Veerapandi	Veerapandi	11.58502	78.06821	BW	182	8.31	7770	2900	200	583	460	6	13	427	2357	154	87	0.08	1.70776
72	Veerapandi	Vembadithalam	11.57048	78.01972	BW	212	8.9	2550	370	24	75	414	5	26	348	603	115	16	1.1	0.02598
73	Kadayampatty	Bommiayampatty	11.86895	78.11635	DW	18.3	8.6	1764	380	64	53	219	25	19	449	213	29	197	0.05	0.4968
74	Kadayampatty	Deevattipatty	11.87532	78.08498	DW	11.2	8.8	1032	260	60	27	115	3	20	325	106	14	62	0.02	0.1118
75	Kadayampatty	Denishpet	11.87797	78.14736	DW	14.7	8.8	1465	220	4	51	228	13	20	294	206	62	124	0.78	0.519
76	Kadayampatty	Dharapuram	11.7893	78.0474	DW	15	9.1	2410	520	36	105	322	10	30	378	567	14	74	0.05	2.6619
77	Kadayampatty	Gundukal	11.89008	78.04504	DW	16.6	8.9	1650	480	32	97	156	6	20	233	142	202	234	0.56	0.214
78	Kadayampatty	Kanavaiputhur	11.94682	78.20115	DW	10	9.1	1999	600	40	122	177	10	30	409	355	86	25	0.78	1.252
79	Kadayampatty	Kanjanaikanpatty	11.82358	78.0454	DW	28.5	7.7	2220	685	56	132	202	11	0	323	486	163	20	0.12	1.8061
80	Kadayampatty	Karuvalli	11.84368	78.02971	DW	12.7	8.7	1263	310	36	53	147	5	18	330	142	43	109	0.25	0.4773
81	Kadayampatty	Kongupatty	11.86038	78.02186	DW	14.2	8.73	2160	670	32	143	184	5	19	315	397	34	237	1.2	0.1351
82	Kadayampatty	Ku.Kuttapatty	11.81246	78.08035	DW	18.1	8.6	1430	480	56	83	104	12	19	176	262	72	124	0.32	0.9628
83	Kadayampatty	Mookanur	11.8575	78.05289	DW	13.8	8.87	1416	500	40	97	97	5	20	295	213	48	112	0.67	0.0462
84	Kadayampatty	Nadupatty	11.88228	78.09211	DW	15.4	8.7	1095	350	32	66	83	14	20	240	142	53	72	0.05	0.066
85	Kadayampatty	Pannapatty	11.82821	78.07215	DW	11.5	8.6	4860	1300	76	270	522	5	18	391	1134	336	180	0.48	3.125

S.No	Block	Village	Latitude	Longitude	Well Type	DEPTH	PH	EC	TH	Ca	Mg	Na	K	CO_3	HCO_3	Cl	SO_4	NO_3	F	U
						In meter		µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
86	Kadayampatty	Poosaripatty	11.83684	78.06397	DW	13.5	8.8	3320	780	40	165	405	10	20	294	780	240	64	1.52	0.978
87	Kadayampatty	Semmandapatty	11.79189	78.03256	DW	16.2	7.8	10560	2610	100	574	1265	1	0	244	3580	82	30	0.86	12.079
88	Kadayampatty	Umbilikampatty	11.9002	78.10994	DW	12.8	8.6	1852	450	64	70	207	25	19	449	284	58	81	0.74	1.251
89	Kadayampatty	Veppilai	11.91143	78.18476	DW	12	9	2080	400	20	85	294	10	30	567	284	58	93	0.98	1.527
90	Omalur	Balpakki	11.75732	78.042	DW	19.7	7.9	1095	375	28	74	78	4	0	275	142	77	54	1.2	0.12142
91	Omalur	Ettikuttipatty	11.74266	78.07607	DW	20.5	8.95	2300	700	36	148	223	8	25	334	482	192	10	1.4	1.734
92	Omalur	Gollapatty	11.73324	78.09296	DW	15.8	8.55	1845	850	58	171	30	14	26	251	404	72	48	1.7	0.40099
93	Omalur	Kamalapuram	11.77091	78.05753	DW	20	8.22	3190	840	88	151	345	11	0	238	737	182	218	0.85	2.8153
94	Omalur	Kottagoundampatty	11.71947	78.06901	DW	25	9.02	2310	290	36	49	400	6	30	610	390	58	22	2	0.537
95	Omalur	Kottai Mariamman Kovil	11.73555	78.03185	DW	10	9.2	2370	680	32	146	235	2	30	586	355	96	65	0.15	22.745
96	Omalur	Kottamettupatty	11.73365	78.06145	DW	30	8.2	3220	550	48	105	483	12	0	458	461	432	182	1.6	1.097
97	Omalur	M.Chettipatty	11.73063	78.01023	DW	9	8.74	1558	445	24	94	150	5	20	265	266	96	81	0.23	0.043
98	Omalur	Manguppai	11.69059	78.07678	DW	20	9.2	2610	700	28	153	276	3	33	757	319	77	126	1.53	3.3167
99	Omalur	Moongilpadi	11.74118	78.1141	DW	20	9.12	1321	575	36	118	32	10	36	195	167	158	44	0.65	0.5591
100	Omalur	Muthunaikanpatty	11.71889	78.0347	DW	14.55	8.67	1788	400	32	78	225	5	19	327	241	154	115	1.6	1.783
101	Omalur	Naranampalayam	11.75793	78.07327	DW	17	8.2	1685	200	16	39	294	5	0	244	131	350	109	0.92	0.921
102	Omalur	P.Nallagoundampatty	11.69522	78.06216	DW	15	8.98	2090	440	60	70	271	8	25	408	255	192	118	1.5	1.202
103	Omalur	Pachinampatty	11.732	78.01401	DW	11.3	7.79	1431	310	28	58	184	10	0	305	213	154	17	0.21	0.57691
104	Omalur	Pagalpatty	11.68727	78.0643	DW	16	9.05	1778	250	36	39	288	8	30	391	128	302	18	1.1	4.8882
105	Omalur	Periyeripatty	11.73284	77.97954	DW	10.4	8.46	1360	335	38	58	161	2	60	98	135	134	217	0.15	0.15692
106	Omalur	Pottiapuram	11.77626	78.06822	DW	15.5	8.2	3850	800	188	80	518	13	0	366	1007	115	124	0.06	0.87795
107	Omalur	Puliyampatty	11.73219	78.06002	DW	10.4	8.2	2840	700	56	136	334	5	0	397	603	110	174	1.1	1.1922
108	Omalur	Sakkarachettypatti	11.77485	78.09283	DW	11.3	8.9	1938	500	36	100	207	13	26	362	305	82	138	0.46	0.08216
109	Omalur	Saminaikanpatty	11.70945	78.08463	DW	20.1	9.08	3020	520	36	105	460	10	30	427	447	432	59	1.5	0.3817
110	Omalur	Sangeethapatty	11.73314	78.09104	DW	20.3	9	911	420	40	78	14	11	30	244	106	19	50	0.46	3.99851
111	Omalur	Sellapillaikuttai	11.71999	78.05253	DW	13.6	8.98	885	135	36	11	138	6	24	256	71	53	47	0.25	6.7644
112	Omalur	Semman Koodal	11.7055	78.01579	DW	20	8.8	1621	550	30	115	120	3	20	350	248	72	82	0.89	0.5731
113	Omalur	Sikkampatty	11.70953	77.98689	DW	16.5	8.77	1379	300	26	57	179	4	20	216	96	146	235	1.2	1.709

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						In meter		µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
114	Omalur	Sikkanampatty	11.79576	78.05788	DW	16.6	8.2	1930	400	76	51	260	4	0	275	390	96	112	0.66	0.3759
115	Omalur	Tathiyampatty	11.77292	78.06539	DW	15	8.24	2440	470	32	95	345	1	0	281	425	288	112	1.54	1.48317
116	Omalur	Thekkampatty	11.74741	78.22421	DW	25	8.5	1440	420	20	90	92	5	25	345	89	67	129	0.01	0.667
117	Omalur	Thindamangalam	11.74971	78.01115	DW	17.1	8.73	1895	860	26	193	28	17	19	290	319	96	149	0.95	0.15366
118	Omalur	Tholasampatty	11.75385	77.97525	DW	25	9	1148	150	22	23	184	17	30	366	106	62	14	1.62	2.2584
119	Omalur	Thumbipadi	11.82069	78.08904	DW	21.3	8.1	1070	425	32	84	46	10	0	305	142	38	62	0.83	0.17658
120	Omalur	U.Maramangalam	11.75711	78.98742	DW	10.3	7.8	2750	600	100	85	350	10	0	513	411	278	105	0.82	0.5762
121	Omalur	Vellakkalpatty	11.70868	78.10449	DW	12	9.24	1333	275	22	53	173	8	33	360	99	144	24	1.7	1.5284
122	Omalur	Vellalapatty	11.7527	78.09853	DW	25	8.9	1498	210	30	33	239	12	26	338	96	192	105	0.56	0.8005
123	Veerapandi	Aanaikuttapatty	11.57048	78.01972	DW	15	8.92	3020	530	20	117	449	7	19	455	674	53	130	1.65	1.2658
124	Veerapandi	Aarigoundampatty	11.64123	78.04148	DW	2.6	8.57	2990	1150	48	250	161	3	24	275	766	134	31	0.23	2.42309
125	Veerapandi	Akkarapalayam	11.60558	78.10658	DW	15	9.09	2540	980	40	214	138	9	30	744	326	158	3	0.821	0.09185
126	Veerapandi	Cennagiri	11.57322	78.0857	DW	16	8.63	6730	1600	112	321	817	5	18	482	1808	374	11	1.7	4.54612
127	Veerapandi	Chettikadu	11.52546	78.0454	DW	15	8.59	1464	605	56	113	53	12	18	268	230	96	74	0.65	2.32018
128	Veerapandi	Ettimanickampatty	11.555	78.04504	DW	15	9.01	2860	640	64	117	368	4	33	378	581	110	177	1.4	1.6982
129	Veerapandi	Inampiroji	11.56781	78.06311	DW	25	8.46	1253	400	34	77	97	11	24	165	259	62	30	0.75	2.6298
130	Veerapandi	Inampiroji	11.56781	78.06311	DW	25	8.37	1781	600	48	117	133	7	18	189	347	144	98	0.66	1.76304
131	Veerapandi	Kadathur	11.55583	78.04504	DW	15	8.89	4920	1100	88	214	621	7	30	305	1418	149	1	1.2	3.91805
132	Veerapandi	Kalparapatty	11.58735	78.03078	DW	16.5	8.6	1468	410	24	85	145	5	18	207	284	72	59	1.6	3.658
133	Veerapandi	Keeraipappampady	11.67	78.04753	DW	20	8.75	882	275	38	44	69	9	19	243	124	24	18	0.23	2.1569
134	Veerapandi	Maramangalathupatty	11.67144	78.05436	DW	17.1	9.08	1565	345	30	66	196	4	30	391	213	58	59	0.68	0.15229
135	Veerapandi	Maramangalathupatty	11.67076	78.05436	DW	20	8.81	1440	440	20	95	129	4	24	354	213	72	29	0.86	2.7874
136	Veerapandi	Marulaiyampalayam	11.53974	78.06109	DW	15	8.48	5120	1960	104	413	299	5	12	464	1482	96	39	0.65	0.58803
137	Veerapandi	Mooduthurai	11.64075	78.0799	DW	11.1	9.16	2420	500	44	95	345	12	33	604	425	72	41	0.92	1.52482
138	Veerapandi	Murungapatty	11.65709	78.05289	DW	11.1	9.18	2100	640	20	143	191	5	36	598	269	72	73	0.86	1.00772
139	Veerapandi	Noolkarankadu	11.56389	78.07108	DW	15	8.6	3740	770	60	151	506	8	18	458	886	192	36	1.2	2.93525
140	Veerapandi	Periya puthur	11.62368	78.10637	DW	20	8.93	1783	530	64	90	161	8	25	377	319	67	32	0.23	5.9737
141	Veerapandi	Periya Seeragapadi	11.58626	78.05359	DW	20	8.89	2880	800	120	122	299	7	33	427	642	86	72	0.56	1.6421
142	Veerapandi	Perumagoundampatty	11.63841	78.02571	DW	10.35	9.17	2260	600	36	124	242	9	30	488	390	67	94	0.85	2.62451

S.No	Block	Village	Latitude	Longitude	Well Type	DEPTH	PH	EC	TH	Ca	Mg	Na	K	CO_3	HCO_3	Cl	SO_4	NO_3	F	U
						In meter		µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
143	Veerapandi	Perumampatty	11.6321	78.10453	DW	15.5	8.87	2280	650	36	136	230	11	19	419	425	120	84	1.6	1.00872
144	Veerapandi	Pichapalayam	11.54391	78.07157	DW	15	8.77	4190	1650	64	362	196	19	30	342	1085	165	83	0.87	3.10813
145	Veerapandi	Pulavari	11.58502	78.06821	DW	20.5	8.15	7310	2200	180	425	667	8	0	226	2198	277	102	0.05	3.50123
146	Veerapandi	Rajapalayam	11.55583	78.04504	DW	15	7.96	4750	1110	56	236	575	6	0	610	1276	67	3	0.86	1.32595
147	Veerapandi	Rakkipatty	11.56628	78.03434	DW	20.7	8.75	4310	1040	120	180	529	5	24	470	908	394	96	0.4	3.265
148	Veerapandi	Senaipalayam	11.58735	78.02792	DW	15	9.13	920	390	30	77	30	9	30	183	106	53	74	0.65	0.02568
149	Veerapandi	Uthamasolapuram	11.59507	78.00585	DW	15	8.38	6280	1980	112	413	529	6	12	397	1900	96	17	0.65	1.86381
150	Veerapandi	Vayakadu	11.55727	78.04611	DW	15	9.18	3480	760	32	165	449	8	36	964	496	182	6	0.85	3.8037
151	Veerapandi	Veerapandi	11.61331	78.09836	DW	20	8.9	5900	1500	80	316	667	9	24	702	1510	144	82	0.46	5.03664
152	Veerapandi	Vembadithalam	11.56944	78.01391	DW	16.15	8.72	3010	500	44	95	460	4	19	328	744	139	16	1.82	0.03654
153	Veerapandi	Puthur	11.63216	78.10453	HP	182	8.82	2500	670	36	141	276	9	26	519	496	134	14	0.22	0.72258

2. Intensified Sampling locations

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
1	Veerapandi	Chinnagiri	Rajaveethi	11.533038	78.061729	200	15/09/2023	Bore Well	7.75	8150	1.31
2	Veerapandi	Chinnagiri	Errusonampatty	11.536932	78.061639	180	15/09/2023	Bore Well	7.72	7050	1.41
3	Veerapandi	Chinnagiri	Moorthykaddu	11.539113	78.067113	200	15/09/2023	Bore Well	7.79	5820	0.825
4	Veerapandi	S.Papparapatti	Perumbaraikadu	11.532101	78.062805	150	15/09/2023	Bore Well	7.88	4670	0.772
5	Veerapandi	S.Papparapatti	Abarghamlingam St	11.528276	78.058271	150	15/09/2023	Bore Well	7.91	4690	0.506
6	Veerapandi	S.Papparapatti	Konangadu	11.520567	78.052343	200	15/09/2023	Bore Well	7.85	1980	1.1
7	Veerapandi	Marulayampalayam	Marulayampalayam	11.5239	78.046097	180	15/09/2023	Bore Well	7.74	1750	0.881
8	Veerapandi	Marulayampalayam	Mayil, Chettikadu	11.525807	78.03493	200	15/09/2023	Bore Well	8.12	2040	1.1
9	Veerapandi	Marulayampalayam	Chettikadu	11.524264	78.0374	150	15/09/2023	Bore Well	7.78	2560	1.15
10	Veerapandi	Rajapalayam	Nainampatty	11.53658	78.050851	150	15/09/2023	Bore Well	7.88	6670	1.64
11	Veerapandi	Rajapalayam	Arimanagar	11.536877	78.055337	200	15/09/2023	Bore Well	7.69	5880	1.81
12	Veerapandi	Rajapalayam	Karikattanpalayam	11.54866	78.052204	200	15/09/2023	Bore Well	7.91	3440	2.1
13	Veerapandi	Rajapalayam	Ar Colony	11.552942	78.048174	200	15/09/2023	Bore Well	8.07	3090	1.82
14	Veerapandi	Ettimanikampatty	Mariamman Koil, Ettimanikampatty	11.55829	78.043385	200	15/09/2023	Bore Well	8.12	2380	1.1
15	Veerapandi	Ettimanikampatty	Ettimanikampatty	11.558051	78.04428	150	15/09/2023	Bore Well	8.02	1450	1.31
16	Veerapandi	Ettimanikampatty	Andipatty	11.554774	78.040786	200	16/09/2023	Bore Well	7.91	2150	0.952
17	Veerapandi	Ettimanikampatty	Sengodapalayam	11.56081	78.032622	220	16/09/2023	Bore Well	7.96	1460	0.892
18	Veerapandi	Rakipatty	R Puthupalayam	11.560582	78.034277	210	16/09/2023	Bore Well	8.02	1585	1.32
19	Veerapandi	Rakipatty	Sengodapalayam	11.562479	78.033252	200	16/09/2023	Bore Well	7.9	1960	1.31
20	Veerapandi	Rakipatty	Chettiyar St, Rakipatty	11.564662	78.042539	200	16/09/2023	Bore Well	8.25	2660	0.661
21	Veerapandi	Rakipatty	Rakipatty	11.561991	78.043327	220	16/09/2023	Bore Well	7.91	4860	0.829
22	Veerapandi	Kadathur	Agarharam	11.570653	78.051295	200	16/09/2023	Bore Well	7.51	2800	1.46
23	Veerapandi	Kadathur	Near Vetinary Hospital	11.57095	78.05285	200	16/09/2023	Bore Well	7.72	1260	1.02
24	Veerapandi	Kadathur	P.K Valavu	11.565577	78.057408	180	16/09/2023	Bore Well	8.17	1470	0.632
25	Veerapandi	Seerakapadi	Annanagar	11.584895	78.056441	200	16/09/2023	Bore Well	8.05	1990	1.42

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
26	Veerapandi	Seerakapadi	Chinnaseerakapadi	11.583214	78.056362	220	16/09/2023	Bore Well	7.84	2030	0.398
27	Veerapandi	Seerakapadi	Periyaseerakapadi	11.578393	78.045181	200	16/09/2023	Bore Well	7.78	2140	0.996
28	Veerapandi	Seerakapadi	Marriyamman Koil	11.576217	78.055123	210	16/09/2023	Bore Well	8.01	3720	0.603
29	Veerapandi	Bairoji	Nalrayanpatty	11.570551	78.0608	200	16/09/2023	Bore Well	7.53	3000	1.52
30	Veerapandi	Bairoji	Vadarasampatty	11.558201	78.069673	190	16/09/2023	Bore Well	7.91	2440	1.23
31	Veerapandi	Bairoji	Pitcherpalayam	11.54541	78.07042	200	16/09/2023	Bore Well	7.42	2040	1.35
32	Veerapandi	Bairoji	Bairoji	11.560994	78.067566	210	16/09/2023	Bore Well	7.73	3550	1.78
33	Veerapandi	Akarampalayam	S Palampatty	11.569122	78.071833	200	16/09/2023	Bore Well	7.36	2500	0.998
34	Veerapandi	Akarampalayam	Pottakadu	11.568202	78.077212	200	16/09/2023	Bore Well	7.48	2810	1.32
35	Veerapandi	Akarampalayam	Lakshmanur	11.574782	78.086952	210	17/9/2023	Bore Well	7.76	2260	0.496
36	Veerapandi	Akarampalayam	Lakshmanur Near Mariyaman Koil	11.579659	78.085803	180	17/9/2023	Bore Well	7.18	4080	0.478
37	Veerapandi	Akarampalayam	Jj Nagar	11.584534	78.095291	240	17/9/2023	Bore Well	7	6500	1.32
38	Veerapandi	Pullavari	Sithaneri	11.591916	78.09731	200	17/9/2023	Bore Well	7.06	2960	0.656
39	Veerapandi	Pullavari	Ooradimuniyappan Kadu	11.603501	78.10232	220	17/9/2023	Bore Well	7.16	2920	0.722
40	Veerapandi	Pullavari	Keel Theru	11.604665	78.105805	210	17/9/2023	Bore Well	7.32	2330	1.48
41	Veerapandi	Pullavari	Punjai Kadu	11.592267	78.108976	200	17/9/2023	Bore Well	7.41	4280	0.806
42	Veerapandi	Uthamasolapuram	Soolaimedu	11.605381	78.094194	200	17/9/2023	Bore Well	7.74	3170	0.812
43	Veerapandi	Uthamasolapuram	Kanakupillaikadu	11.613307	78.098195	180	17/9/2023	Bore Well	7.75	4080	0.672
44	Veerapandi	Uthamasolapuram	Uthamasolapuram	11.61107	78.10672	200	17/9/2023	Bore Well	7.36	5770	0.66
45	Veerapandi	Veerapandi	Arriyanoor	11.591317	78.07654	210	17/9/2023	Bore Well	7.7	2980	0.606
46	Veerapandi	Veerapandi	Kuttakadu	11.587091	78.069058	200	17/9/2023	Bore Well	7.23	4380	1.6
47	Veerapandi	Veerapandi	Mettukadu	11.576172	78.070847	200	17/9/2023	Bore Well	7.38	3110	1.75
48	Veerapandi	Veerapandi	Santhaipettai	11.57334	78.072609	220	17/9/2023	Bore Well	7.81	2060	1.31
49	Veerapandi	Puthur	Muniappan Koil Kadu	11.621459	78.11082	200	18/9/2023	Bore Well	7.44	1717	0.7
50	Veerapandi	Puthur	Chinnaputhur	11.623673	78.106718	180	18/9/2023	Bore Well	7.67	2630	0.59
51	Veerapandi	Puthur	Perriyarnagar	11.628942	78.105604	210	18/9/2023	Bore Well	7.36	2620	0.7491

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
52	Veerapandi	Puthur	Perriyaputhur	11.632868	78.106618	200	18/9/2023	Bore Well	7.35	2030	0.621
53	Veerapandi	Puthur	Malaiyankadu	11.628726	78.092914	200	18/9/2023	Bore Well	7.25	2090	1.321
54	Veerapandi	Perumampatty	Kanavakadu	11.635146	78.083073	220	18/9/2023	Bore Well	7.37	2050	1.412
55	Veerapandi	Perumampatty	Perumampatty	11.641225	78.074645	200	18/9/2023	Bore Well	7.33	1990	0.976
56	Veerapandi	Perumampatty	Kottanur	11.642687	78.08497	210	18/9/2023	Bore Well	7.31	5830	2.2
57	Veerapandi	Perumampatty	Chinnagur	11.646797	78.089591	200	18/9/2023	Bore Well	7.21	2640	1
58	Veerapandi	Mooduthurai	Nallampatty	11.657795	78.056317	150	18/9/2023	Bore Well	7.41	1895	1.2
59	Veerapandi	Mooduthurai	Naikanpatty	11.640295	78.050513	200	18/9/2023	Bore Well	7.6	1960	1.52
60	Veerapandi	Murungapatty	Melkadu	11.630589	78.038669	190	18/9/2023	Bore Well	7.78	2370	0.57
61	Veerapandi	Murungapatty	Laguvampatty	11.631026	78.033215	200	18/9/2023	Bore Well	7.75	1340	1.21
62	Veerapandi	Murungapatty	Mottur	11.636361	78.028088	150	18/9/2023	Bore Well	7.45	2130	0.663
63	Veerapandi	Arigoundampatty	Alagapankadu	11.640197	78.026868	120	18/9/2023	Bore Well	7.56	4020	0.431
64	Veerapandi	Arigoundampatty	Ayyannavalavu	11.635566	78.023388	200	18/9/2023	Bore Well	7.4	2870	1.47
65	Veerapandi	Arigoundampatty	Chittanur	11.649304	78.008083	200	18/9/2023	Bore Well	7.33	5040	1.7
66	Veerapandi	Vempadithalam	Vempadithalam Near Mariamman Koil	11.568534	78.012544	200	18/9/2023	Bore Well	7.28	1795	0.939
67	Veerapandi	Vempadithalam	Thiruvallypatty	11.561364	78.012731	200	18/9/2023	Bore Well	7.85	3900	1.82
68	Veerapandi	Vempadithalam	Selliyampalayam	11.559371	78.019197		18/9/2023	Bore Well	7.35	3540	0.98
69	Veerapandi	Anaikuttapatty	Anaikuttupatty	11.572923	78.016042	200	18/9/2023	Bore Well	7.42	1275	1.02
70	Veerapandi	Kalparapatty	Kothukarankadu	11.581221	78.023115	120	18/9/2023	Bore Well	7.54	940	1.42
71	Veerapandi	Senaiplayam	Senaipalayam	11.566772	78.026624	200	19/9/2023	Bore Well	7.66	2260	2.12
72	Veerapandi	Senaiplayam	Paraikadu	11.564841	78.022088	200	19/9/2023	Bore Well	7.7	1620	2.32
73	Veerapandi	Senaiplayam	Servampalayam	11.572917	78.03187	220	19/9/2023	Bore Well	7.62	2620	2.44
74	Veerapandi	Senaiplayam	Dasankadu	11.570119	78.020729	180	19/9/2023	Bore Well	7.74	2920	1.3
75	Veerapandi	Kalparapatty	Oothukenathu Valavu	11.587144	78.02992	250	19/9/2023	Bore Well	7.32	3400	2.13
76	Veerapandi	Kalparapatty	Keelkatturvalavu	11.592054	78.03011	200	19/9/2023	Bore Well	7.64	1290	1.8
77	Veerapandi	Kalparapatty	Puthupalayam Ar Colony	11.589891	78.022865	200	19/9/2023	Bore Well	7.74	1035	2.15

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
78	Veerapandi	Kalparapatty	Sevampalayam	11.590511	78.037084	150	19/9/2023	Bore Well	7.6	2160	2.67
79	Veerapandi	Kalparapatty	Bondiliyankuttai	11.60312	78.038455	200	19/9/2023	Bore Well	7.44	2990	1.52
80	Veerapandi	Kalparapatty	Sivakumar Colony	11.57948	78.039735	220	19/9/2023	Bore Well	7.5	1485	1.43
81	Veerapandi	Annaikuttapatty	Kombakaranvalavu	11.576993	78.020042	210	19/9/2023	Bore Well	7.66	2800	2.29
82	Veerapandi	Perrumakoundampatty	Mgr Nagar	11.594178	78.000594	200	19/9/2023	Bore Well	7.53	5000	2.31
83	Veerapandi	Perrumakoundampatty	Kaliammankoil	11.596628	78.00565	200	19/9/2023	Bore Well	7.47	2060	1.5
84	Veerapandi	Perrumakoundampatty	Perrumakondampatty	11.597367	78.010971	205	19/9/2023	Bore Well	7.89	2070	1.12
85	Veerapandi	Perrumakoundampatty	Mankadu	11.601976	78.024417	210	19/9/2023	Bore Well	7.7	2560	0.697
86	Veerapandi	Maramangalathupatty	Chinapattankadu	11.667239	78.038778	250	19/9/2023	Bore Well	7.36	2060	1.02
87	Veerapandi	Maramangalathupatty	Mottaiyantheru	11.669774	78.038564	210	19/9/2023	Bore Well	7.43	1475	0.642
88	Veerapandi	Maramangalathupatty	Ska Nagar	11.669921	78.041486	200	19/9/2023	Bore Well	7.55	1615	0.932
89	Veerapandi	Maramangalathupatty	Rasi Nagar	11.671538	78.049083	250	19/9/2023	Bore Well	7.97	370	0.237
90	Veerapandi	Keerapappampady	Puthuyerikarai	11.681614	78.048076	250	19/9/2023	Bore Well	7.66	1355	0.79
91	Veerapandi	Keerapappampady	Kuttakadu Colony	11.689767	78.047525	300	19/9/2023	Bore Well	7.18	3020	1.8
92	Veerapandi	Keerapappampady	Kullapachiyur	11.68856	78.043772	200	19/9/2023	Bore Well	7.23	2640	1.08
93	Veerapandi	Keerapappampady	South Lake Side	11.676532	78.044106	250	20/9/2023	Bore Well	7.35	2920	0.859
94	Omalur	Town	Omalur	11.740749	78.043318	150	20/9/2023	Bore Well	7.32	2090	0.641
95	Omalur	Pagalpatty	Uthandivalavu	11.68562	78.072446	200	20/9/2023	Bore Well	7.35	1970	1.11
96	Omalur	Pagalpatty	Boominayakanpatty	11.684474	78.066362	200	20/9/2023	Bore Well	7.66	2990	1.77
97	Omalur	Pagalpatty	Arasanmarathukadu	11.681447	78.06287	200	20/9/2023	Bore Well	7.41	2210	2.79
98	Omalur	Pagalpatty	Dasanayakanpatty	11.686994	78.056051	150	20/9/2023	Bore Well	7.61	2730	2.4
99	Omalur	Pagalpatty	Tholur	11.692688	78.060979	100	20/9/2023	Bore Well	7.48	2730	0.851
100	Omalur	Pagalpatty	Ramanur	11.709333	78.062604	200	20/9/2023	Bore Well	7.43	2320	1.12
101	Omalur	P.Nallagoundanpatty	Govindankattuvalavu	11.698502	78.077006	200	20/9/2023	Bore Well	7.45	1940	1.31
102	Omalur	P.Nallagoundanpatty	Puthunallagoundanpatty	11.707463	78.073503	220	20/9/2023	Bore Well	7.47	1195	1.55
103	Omalur	P.Nallagoundanpatty	Chellapillaikuttai	11.70562	78078386	200	20/9/2023	Bore Well	7.52	2880	1.76

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
104	Omalur	Chellapillaikuttai	Pagalpatty	11.703857	78.057064	150	20/9/2023	Bore Well	7.35	1390	0.656
105	Omalur	Chellapillaikuttai	Govindasamynagar	11.71245	78.059626	200	20/9/2023	Bore Well	7.5	1600	0.932
106	Omalur	Chellapillaikuttai	Kavandapatty	11.718901	78.059971	150	20/9/2023	Bore Well	7.48	1220	0.532
107	Omalur	Chellapillaikuttai	Bavanur	11.725119	78.061971	200	20/9/2023	Bore Well	7.45	1420	0.583
108	Omalur	Chellapillaikuttai	Kuppandiyur	11.726148	78.057737	150	20/9/2023	Bore Well	7.67	1675	1.61
109	Omalur	M.Chettipatty	M.Chettipatty	11.729819	78.005595	150	21/9/2023	Bore Well	7.87	2910	1.2
110	Omalur	M.Chettipatty	Therukadu	11.732858	78.006447	100	21/9/2023	Bore Well	7.4	455	0.275
111	Omalur	M.Chettipatty	Valluvartheru	11.730614	783009302	200	21/9/2023	Bore Well	8.12	2160	1.26
112	Omalur	M.Chettipatty	Mottayantheru	11.715517	78.008632	250	21/9/2023	Bore Well	7.6	1415	0.786
113	Omalur	Sikkampatty	Sikkampatty	11708363	77.986501	200	21/9/2023	Bore Well	7.81	1798	0.801
114	Omalur	Sikkampatty	Mookartheru	11.70896	77.977788	200	21/9/2023	Bore Well	7.53	990	0.956
115	Omalur	Sikkampatty	Milagaikaranur	11.712006	77.980895	300	21/9/2023	Bore Well	7.72	1780	1.67
116	Omalur	Sikkampatty	Manganur	11.716572	77.982752	150	21/9/2023	Bore Well	7.6	1600	1.28
117	Omalur	Sikkampatty	Paruthikaranur	11.717913	77.980384	200	21/9/2023	Bore Well	7.756	2820	1.48
118	Omalur	Sikkampatty	Periyakadampatty	11.715839	77.988471	150	21/9/2023	Bore Well	7.65	3180	1.78
119	Omalur	Sikkampatty	Periyakadmaptty Colony	11.713528	77.993305	180	21/9/2023	Bore Well	7.54	3570	1.31
120	Omalur	Semmankudal	Kandamichanur	11.693614	78.013824	200	21/9/2023	Bore Well	7.6	2590	0.433
121	Omalur	Semmankudal	Ar Colony	11.691079	78.012157	120	21/9/2023	Bore Well	7.62	1945	0.656
122	Omalur	Semmankudal	Katchivalayanur	11.691588	78.017878	200	21/9/2023	Bore Well	7.71	3250	2.22
123	Omalur	Semmankudal	Semmankudal	11.695762	78.020213	150	21/9/2023	Bore Well	7.75	1915	1.12
124	Omalur	Muthunayakanpatty	Muniyangoundantheru	11.71125	78.028381	150	21/9/2023	Bore Well	7.68	1425	0.622
125	Omalur	Muthunayakanpatty	Masaynnur	11.710042	78.026482	200	21/9/2023	Bore Well	7.78	3400	1.58
126	Omalur	Muthunayakanpatty	Indira Nagar	11.713911	78.027665	150	21/9/2023	Bore Well	7.37	1675	1.31
127	Omalur	Muthunayakanpatty	Manjulayur	11.710129	78.021334	200	21/9/2023	Bore Well	7.82	220	0.822
128	Omalur	Patchinampatty	Muthunayakanpatty	11.715119	78.033345	150	22/9/2023	Bore Well	7.84	960	0.318
129	Omalur	Muthunayakanpatty	Puthurkadanpatty	11.709289	78.001709	200	22/9/2023	Bore Well	7.78	672	0.415

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
130	Omalur	Muthunayakanpatty	Valkaradu	11.69906	78.045728	200	22/9/2023	Bore Well	8	2810	0.401
131	Omalur	Muthunayakanpatty	Olaipatty	11.698627	78.038434	200	22/9/2023	Bore Well	7.38	1800	1.03
132	Omalur	Muthunayakanpatty	Palakuttapatty	11.696751	78.031681	200	22//2023	Bore Well	7.28	1500	1.52
133	Omalur	Muthunayakanpatty	Kelangukarantheru	11.69825	78.027436	200	22/9/2023	Bore Well	7.53	1000	1.41
134	Omalur	Puliyampatty	Kuditheru	1173238	78.057825	150	22/9/2023	Bore Well	7.85	1400	0.761
135	Omalur	Puliyampatty	Adcolony	11.733411	78.06195	200	22/9/2023	Bore Well	7.78	1460	0.882
136	Omalur	Puliyampatty	Lakshminagar	11.729175	78.063011	200	22/9/2023	Bore Well	7.5	636	0.425
137	Omalur	Kottagoundanpatty	Adcolony	11.719225	78.068956	150	22/9/2023	Bore Well	8	1355	1.78
138	Omalur	Kottagoundanpatty	Ambedkar Colony	11.715994	78.067504	150	22/9/2023	Bore Well	7.63	1840	0.533
139	Omalur	Kottagoundanpatty	Vasantham Nagar	11.716038	78.077081	200	22/9/2023	Bore Well	7.78	423	0.243
140	Omalur	Vellakalpatty	Vellakalpatty	11.702031	78.097117	200	22/9/2023	Bore Well	7.76	408	0.088
141	Omalur	Vellakalpatty	Bharathinagar	11.703657	78.106407	200	22/9/2023	Bore Well	8.1	407	0.0708
142	Omalur	Vellakalpatty	Srinivasanagar	11.716543	78.122077	100	22/9/2023	Bore Well	8.2	1540	0.505
143	Omalur	Vellakalpatty	Manjulampalam	11.709119	78.104061	150	22/9/2023	Bore Well	7.27	2240	0.688
144	Omalur	Saminayakanpatty	Naikartheru	11.702727	78.08696	150	22/9/2023	Bore Well	7.71	1560	0.602
145	Omalur	Saminayakanpatty	Saminayakanpatty	11.701778	78.084058	200	22/9/2023	Bore Well	7.86	1550	0.2
146	Omalur	Saminayakanpatty	Panangadu	11.705532	78.089103	250	22/9/2023	Bore Well	7.85	3220	0.462
147	Omalur	Manguppai	Adikarai	11.694045	78.87324	300	22/9/2023	Bore Well	7.5	1090	0.102
148	Omalur	Manguppai	Padayulchatram	11.686972	78.077637	200	24/9/2023	Bore Well	7.98	2550	0.878
149	Omalur	Manguppai	Arcolony	11.698017	78.0808	150	24/9/2023	Bore Well	7.84	2620	2.52
150	Omalur	Kottamettupatty	Kottamettupatty	11.737781	78.61895	200	24/9/2023	Bore Well	7.71	3730	2.68
151	Omalur	Kottamettupatty	Chinnaadaikanoor	11.747433	78.056612	250	24/9/2023	Bore Well	7.58	2480	1.41
152	Omalur	Kottamettupatty	Yerikadu	11.743581	78.057185	300	24/9/2023	Bore Well	7.6	2350	0.895
153	Omalur	Kottamettupatty	Milagaikarankadu	11.739717	78.065327	200	24/9/2023	Bore Well	7.38	2830	1.16
154	Omalur	Ettikuttapatty	Adaikanoor	11.74598	78.074012	200	24/9/2023	Bore Well	7.36	1400	0.402
155	Omalur	Ettikuttapatty	Sekkarapatty	11.746401	78.066224	150	24/9/2023	Bore Well	7.78	1360	0.501

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
156	Omalur	Ettikuttapatty	Mattukaranur	11.74425	78.0773	150	24/9/2023	Bore Well	7.54	1830	0.446
157	Omalur	Ettikuttapatty	Molanidaptty	11.744472	78.082639	200	24/9/2023	Bore Well	7.43	1980	0.43
158	Omalur	Naranampalayam	Annanagar	11.755013	78.078972	150	24/9/2023	Bore Well	7.52	1400	0.445
159	Omalur	Naranampalayam	Mayillampalayam	11.755858	78.086062	200	24/9/2023	Bore Well	7.76	2310	2.15
160	Omalur	Naranampalayam	Adcolony	11.74348	78.084792	200	24/9/2023	Bore Well	7.66	2480	2.77
161	Omalur	Kottaimariyamankoil	Indira Nagar	11.737341	78.034339	200	25/9/2023	Bore Well	7.76	2510	1.42
162	Omalur	Kottaimariyamankoil	Vellagoundanur	11.736681	78.029042	250	25/9/2023	Bore Well	7.79	512	0.346
163	Omalur	Kottaimariyamankoil	Kotakadu	11.725375	78.036363	200	25/9/2023	Bore Well	7.99	2390	1.32
164	Omalur	Kottaimariyamankoil	Peramachur	11.727238	78.048501	200	25/9/2023	Bore Well	7.18	2330	0.699
165	Omalur	Kottaimariyamankoil	Melkamandampatty	11.742608	78.03473	200	25/9/2023	Bore Well	7.52	1580	1.48
166	Omalur	Pachanampatty	Pachanampatty	11.745982	78.027487	200	25/9/2023	Bore Well	7.63	1612	1.45
167	Omalur	Pachanampatty	Pattapanvallavu	11.743714	78.01949	150	25/9/2023	Bore Well	7.32	1609	1.09
168	Omalur	Pachanampatty	Thimirikottai	11.754775	78.029995	200	25/9/2023	Bore Well	7.57	2830	1.33
169	Omalur	Pachanampatty	Karthikadu	11.722791	78.030112	250	25/9/2023	Bore Well	7.4	2920	2.76
170	Omalur	Pachanampatty	Attukaranur	11.728385	78.02299	200	25/9/2023	Bore Well	7.6	2100	2.35
171	Omalur	U.Maramanagalam	Panjukalipatty	11.768614	78.012654	200	25/9/2023	Bore Well	7.62	2640	0.955
172	Omalur	U.Maramanagalam	Kataperiyampatty	11.765575	78.004909	250	25/9/2023	Bore Well	7.59	3060	1.48
173	Omalur	U.Maramanagalam	Karrupanampatty	11.758991	78.021435	200	25/9/2023	Bore Well	7.48	1415	2.02
174	Omalur	Thindamangalam	Vepamarathur	11.752836	78.011011	250	25/9/2023	Bore Well	7.66	1045	1.15
175	Omalur	Thindamangalam	Panangatur	11.752569	78.007128		25/9/2023	Bore Well	7.82	1015	1.08
176	Omalur	Thindamangalam	Poosariyur	11.750607	78.004614		25/9/2023	Bore Well	7.9	1500	1.14
177	Omalur	Periyeripatty	Palikadu	11.726307	77.980437	200	25/9/2023	Bore Well	7.28	3590	0.725
178	Omalur	Periyeripatty	Poothanur	11.730455	77.977791	250	25/9/2023	Bore Well	7.25	2650	1.88
179	Omalur	Periyeripatty	Vavuthanur	11.73699	77.976869	150	25/9/2023	Bore Well	7.3	2190	2.06
180	Omalur	Periyeripatty	Thanapoosari Valavu	11.741488	77.981718	200	25/9/2023	Bore Well	7.3	2810	1.59
181	Omalur	Periyeripatty	Vethalakaranur	11.725918	78.000645	250	25/9/2023	Bore Well	7.25	1330	1.02

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
182	Omalur	Tholasampatty	Ramakrishnanur	11.761059	77.971733	200	26/9/2023	Bore Well	7.46	3060	0.4
183	Omalur	Tholasampatty	Tholasampatty	11.753523	77.975904		26/9/2023	Bore Well	7.07	1940	1.12
184	Omalur	Tholasampatty	Yerikadu Thittu	11.751046	77.982137		26/9/2023	Bore Well	7.27	2120	3.09
185	Omalur	Tholasampatty	T. Reddipatty	11.745378	77.992042	150	26/9/2023	Bore Well	7.33	2360	1.22
186	Omalur	Tholasampatty	Sottaiyanur	11.745605	77.978595	120	26/9/2023	Bore Well	7.36	1115	0.612
187	Omalur	Tholasampatty	Poompatty	11.763994	77.983367	150	26/9/2023	Bore Well	7.44	2030	0.523
188	Omalur	Ballpakkai	Poonaikalur	11.760498	78.040382	150	26/9/2023	Bore Well	7.27	1490	1.42
189	Omalur	Ballpakkai	Keelkamandampatty	11.754594	78.037175	150	26/9/2023	Bore Well	7.39	3750	3.05
190	Omalur	Ballpakkai	Dasankatuvalavu	11.777266	78.039266	150	26/9/2023	Bore Well	7.29	1740	1.78
191	Omalur	Thathiyampatty	Ad Colony	11.776655	78.044783	150	26/9/2023	Bore Well	7.46	846	0.422
192	Omalur	Thathiyampatty	Koothankatuvalvu	11.785124	78.050923	200	26/9/2023	Bore Well	7.47	1706	0.572
193	Omalur	Thathiyampatty	Settiyartheru	11.775446	78.051776	200	26/9/2023	Bore Well	7.3	1452	0.793
194	Omalur	Pottiyapuram	Kattikaranur	11.775583	78.078367	200	26/9/2023	Bore Well	7.18	1675	1.37
195	Omalur	Pottiyapuram	Ranganposarikadu	11.778512	78.081395	150	26/9/2023	Bore Well	7.27	3070	0.848
196	Omalur	Pottiyapuram	Karuthanur	11.781829	78.084527	200	26/9/2023	Bore Well	7.24	2920	1.42
197	Omalur	Pottiyapuram	Odartheru	11.789125	78.080562	250	26/9/2023	Bore Well	7.37	2190	0.984
198	Omalur	Sakarachettypatty	Venganur	11.777272	78.088772	250	26/9/2023	Bore Well	7.42	1970	0.721
199	Omalur	Sakarachettypatty	Puthukadaicolony	11.775501	78.090251	200	26/9/2023	Bore Well	7.35	1590	1.59
200	Omalur	Sakarachettypatty	Nallukalpalam	11.773977	78.094888	250	26/9/2023	Bore Well	7.45	1990	0.873
201	Omalur	Sakarachettypatty	Jalikatuvalavu	11.776454	78.098696	250	26/9/2023	Bore Well	7.25	3090	1.19
202	Omalur	Sakarachettypatty	Gopinathapuram	11.765725	78.103845	200	26/9/2023	Bore Well	7.25	1660	0.789
203	Omalur	Kamalpuram	Ad Colony	11.774444	78.065385	200	27-09-2023	Bore Well	7.4	3010	1.14
204	Omalur	Kamalpuram	Kilathikadu	11.767388	78.089284	160	27-09-2023	Bore Well	7.22	2120	1.36
205	Omalur	Kamalpuram	Kamalapuram	11.767174	78.089284	200	27-09-2023	Bore Well	7.39	2400	2.29
206	Omalur	Kamalpuram	Rc Chettipetty	11.761144	78.058786	250	27-09-2023	Bore Well	7.26	2450	1.09
207	Omalur	Sikkampatty	Kuppur Ar Colony	11.78634	78.058294	200	27-09-2023	Bore Well	7.28	2860	1.02

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
208	Omalur	Sikkanampatty	Sikkanampatty	11.792377	78.059272	200	27-09-2023	Bore Well	7.07	1790	1.34
209	Omalur	Sikkanampatty	Chinnanadupatty	11.801126	78.06651	250	27-09-2023	Bore Well	7.32	1865	1.84
210	Omalur	Thumbipady	Sarakapillayur	11.820588	78.088936	200	27-09-2023	Bore Well	7.27	1380	0.726
211	Omalur	Thumbipady	Thinnapatty	11.813468	78.098558	150	27-09-2023	Bore Well	7.32	1520	0.71
212	Omalur	Thumbipady	Mulluchettypatty	11.804513	78.094082	200	27-09-2023	Bore Well	7.32	1960	0.487
213	Omalur	Thumbipady	Reddiyur	11.789341	78.093907	250	27-09-2023	Bore Well	7.24	2740	0.945
214	Omalur	Thumbipady	Meastrivalavu	11.807141	78.078053	200	27-09-2023	Bore Well	7.3	655	0.316
215	Omalur	Gollapatty	Pudur	11.732838	78.09319	200	27-09-2023	Bore Well	7.46	518	0.0791
216	Omalur	Gollapatty	Thattanchavadi	11.730833	78.100892	250	27-09-2023	Bore Well	7.55	712	0.223
217	Omalur	Gollapatty	Kalikaatupallam	11.737361	78.101471	200	27-09-2023	Bore Well	7.5	1615	0.621
218	Omalur	Thekampatty	Thekampatty	11.746539	78.116088	200	27-09-2023	Bore Well	7.16	1940	0.353
219	Omalur	Thekampatty	Sengaradu	11.746744	78.139515	250	27-09-2023	Bore Well	7.36	1134	0.182
220	Omalur	Thekampatty	Gollapatty	11.748485	78.114037	200	27-09-2023	Bore Well	7.75	1610	0.627
221	Omalur	Moongilpadi	Marimuthunagar	11.738441	78.116016	200	28-09-2023	Bore Well	7.55	1690	0.772
222	Omalur	Moongilpadi	Athuvanamariammankoil	11.731815	78.111809	200	28-09-2023	Bore Well	7.63	1575	2.15
223	Omalur	Vellalapatty	Vellalapatty	11.749003	78.100188	250	28-09-2023	Bore Well	7.55	1880	0.612
224	Omalur	Vellalapatty	Puthu Colony	11.754255	78.102621	150	28-09-2023	Bore Well	7.46	1335	0.952
225	Omalur	Vellalapatty	Karattukotai	11.744348	78.092273	200	28-09-2023	Bore Well	7.57	1900	0.656
226	Omalur	Sangeethapatty	Sangeethapatty	11.734606	78.083799	250	28-09-2023	Bore Well	7.58	2790	2.05
227	Omalur	Sangeethapatty	Vetrilaikarand	11.72836	78.074111	200	28-09-2023	Bore Well	7.64	2340	1.89
228	Omalur	Sangeethapatty	Vengayanul	11.72925	78.081213	150	28-09-2023	Bore Well	7.5	1175	0.824
229	Kadayampatty	Semmandapatty	Periyapatty	11.80389	78.019766	180	29-09-2023	Bore Well	7.52	2590	2.45
230	Kadayampatty	Semmandapatty	Perriyapattypirivu	11.805093	78.028619	250	29-09-2023	Bore Well	7.32	3040	1.41
231	Kadayampatty	Semmandapatty	S Mottur	11.787481	78.016662	180	29-09-2023	Bore Well	7.6	4330	1.52
232	Kadayampatty	Semmandapatty	Semmandapatty	11.786674	78.027529	220	29-09-2023	Bore Well	7.51	4470	0.789
233	Kadayampatty	Dharapalam	Dharapalam	11.786625	78.04827	200	29-09-2023	Bore Well	7.36	2830	2.28

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
234	Kadayampatty	Dharapalam	Kalarkadu	11.805813	78.048941	200	29-09-2023	Bore Well	7.55	1456	0.782
235	Kadayampatty	Dharapalam	Oorgoundankottai	11.83413	78.061347	220	29-09-2023	Bore Well	7.78	3160	1.29
236	Kadayampatty	Karuvalli	Ramapuram	11.846127	78.029841	240	29-09-2023	Bore Well	7.51	2720	3.67
237	Kadayampatty	Karuvalli	Ramapuram Colony	11.852091	78.04028		29-09-2023	Bore Well	7.74	2490	1.31
238	Kadayampatty	Karuvalli	Santhanur	11.837406	78.037921	200	29-09-2023	Bore Well	7.62	1023	0.835
239	Kadayampatty	Karuvalli	Chinnatirupathy	11.825909	78.029281	250	29-09-2023	Bore Well	7.78	2140	0.591
240	Kadayampatty	Kanjanayakampatty	Santhanur	11.828263	78.036353	200	10-03-2023	Bore Well	7.78	1740	0.828
241	Kadayampatty	Kanjanayakampatty	Kottaimedu	11.813491	78.049116	250	10-03-2023	Bore Well	7.82	1734	2.4
242	Kadayampatty	Kanjanayakampatty	Kanjanayakampatty	11.828162	78.049109	200	10-03-2023	Bore Well	7.73	1685	1.16
243	Kadayampatty	Mookanur	Mookanur	11.858013	78.046367	250	10-03-2023	Bore Well	7.59	1400	0.924
244	Kadayampatty	Mookanur	Rasipulathankaatuvalavu	11.859549	78.058471	100	10-03-2023	Bore Well	7.52	1427	0.425
245	Kadayampatty	Kongupatty	Kongupatty	11.858651	78.018501	210	10-03-2023	Bore Well	7.43	2400	1.92
246	Kadayampatty	Kongupatty	Kowtharimedu	11.862969	77.993502	200	10-03-2023	Bore Well	7.26	1645	0.677
247	Kadayampatty	Kongupatty	Kothapillayur	11.864248	77.990516	250	10-03-2023	Bore Well	7.37	935	1.37
248	Kadayampatty	Goondakal	Jodukuli	11.900245	78.051021	230	10-03-2023	Bore Well	7.29	1965	0.787
249	Kadayampatty	Goondakal	Pairankottai	11.903062	78.031603	220	10-03-2023	Bore Well	7.35	2420	1.05
250	Kadayampatty	Goondakal	Kottalur	11.890929	78.030167	200	10-03-2023	Bore Well	7.36	2970	0.82
251	Kadayampatty	Poosaripatty	Poosaripatty	11.837101	78.060941	200	10-03-2023	Bore Well	7.31	3980	0.828
252	Kadayampatty	Poosaripatty	Kanniyakottai	11.848291	78.050654	250	10-03-2023	Bore Well	7.11	1920	0.949
253	Kadayampatty	Poosaripatty	Dasasamuthram	11.856172	78.069342	200	10-03-2023	Bore Well	7.3	2130	0.879
254	Kadayampatty	Poosaripatty	Kuruvanoor	11.850981	78.080166	200	10-03-2023	Bore Well	7.35	3420	0.669
255	Kadayampatty	Pannapatty	Pannapatty	11.830793	78.068397	250	10-04-2023	Bore Well	7.21	1955	1.89
256	Kadayampatty	Pannapatty	Marakondanputhur	11.837433	78.076283	200	10-04-2023	Bore Well	7.3	1415	2.21
257	Kadayampatty	Pannapatty	Kangayanoor, Ad Colony	11.827266	78.079691	200	10-04-2023	Bore Well	7.43	1620	0.596
258	Kadayampatty	Ku.Kuttapatty	Mamarathur	11.815726	78.105392	250	10-04-2023	Bore Well	7.46	2350	2.3
259	Kadayampatty	Ku.Kuttapatty	Kottaimedu	11.826216	78.099224	250	10-04-2023	Bore Well	7.55	1675	0.737

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
260	Kadayampatty	Ku.Kuttapatty	Ku.Kuttapatty	11.815967	78.093534	200	10-04-2023	Bore Well	7.47	3530	0.467
261	Kadayampatty	Theevatipatty	Theevatipatty	11.866794	78.083522	200	10-04-2023	Bore Well	7.2	1610	1.12
262	Kadayampatty	Theevatipatty	Nainakadu	11.857886	78.096071	200	10-04-2023	Bore Well	7.16	1810	0.214
263	Kadayampatty	Theevatipatty	Kalarkadu	11.866906	78.07514	250	10-04-2023	Bore Well	7.37	1850	0.68
264	Kadayampatty	Nadupatty	Katuvalavu	11.892864	78.099653	200	10-04-2023	Bore Well	7.44	1370	2.18
265	Kadayampatty	Nadupatty	Nadupatty	11.880304	78.091177	250	10-04-2023	Bore Well	7.56	455	0.354
266	Kadayampatty	Nadupatty	Thalaivaipatty	11.890629	78.078069	300	10-04-2023	Bore Well	7.78	907	1.315
267	Kadayampatty	Umbillikampatty	Kattuvalvu	11.907766	78.111542	300	10-04-2023	Bore Well	7.74	1360	1.78
268	Kadayampatty	Umbillikampatty	Ar Colony	11.900846	78.112231	200	10-04-2023	Bore Well	7.51	960	1.21
269	Kadayampatty	Bommiyampatty	Bommiyampatty	11.902351	78.1238	200	10-04-2023	Bore Well	7.62	775	1.46
270	Kadayampatty	Bommiyampatty	Vaiyapurikombai	11.899269	78.131744	300	10-04-2023	Bore Well	7.4	1098	0.732
271	Kadayampatty	Bommiyampatty	Palayakinnaru	11.89942	78.115542	200	10-04-2023	Bore Well	7.58	2300	1.87
272	Kadayampatty	Danishpet	Periyavadagampatty	11.881157	78.143809	200	10-05-2023	Bore Well	7.35	1118	2.76
273	Kadayampatty	Danishpet	Gandhinagar	11.874544	78.131669	200	10-05-2023	Bore Well	7.47	1360	1.58
274	Kadayampatty	Danishpet	Lokur	11.921701	78.165857	200	10-05-2023	Bore Well	7.34	920	0.992
275	Kadayampatty	Kannavaiputhur	Kannavaiputhur	11.931062	78.183819	200	10-05-2023	Bore Well	7.46	1320	0.83
276	Kadayampatty	Kannavaiputhur	K.Morur	11.950474	78.201914	200	10-05-2023	Bore Well	7.38	2330	2.75
277	Kadayampatty	Kannavaiputhur	Selvasamuthram	11.953062	78.228101	300	10-05-2023	Bore Well	7.48	1855	3.32
278	Kadayampatty	Kannavaiputhur	Ramamoorthynagar	11.967942	78.232578	200	10-05-2023	Bore Well	7.62	1585	0.927
279	Veerapandi	Chennagiri	Erusanampatty	11.53354	78.061644	13.5	15/9/2023	Dug Well	7.38	3000	0.495
280	Kadayampatty	Gundukal	Pairan Kottai	11.902936	78.030898	18	10-03-2023	Dug Well	8.12	294	0.121
281	Omalur	Vellakkalpatty	Pamankadu	11.707698	78.108961	18	22/9/2023	Dug Well	8.12	760	0.131
282	Omalur	Moongilpadi	Senaigoundanur	11.739027	78.118467	15	28/9/2023	Dug Well	8.86	995	0.152
283	Omalur	Pagalpatti	Senganur	11.681138	78.075271	20.7	20/9/2023	Dug Well	8.44	2140	0.178
284	Veerapandi	Uthamasolapuram	Kanakupillaikadu	11.613285	78.098332	8	17/9/2023	Dug Well	7.6	6460	0.185
285	Kadayampatty	Theevattipatty	Nainakadu	11.856461	78.097954	10	10-04-2023	Dug Well	7.56	1530	0.214

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
286	Omalur	Moongilpadi	Marimuthunagar	11.738503	78.116055	21	28/9/2023	Dug Well	8.62	1460	0.258
287	Omalur	Pachanampatty	Karthikadu	11.722145	78.031915	19	25/9/2023	Dug Well	8.61	2520	0.293
288	Omalur	Pachanampatty	Aatukaranur	11.725335	78.016957	15	25/9/2023	Dug Well	8.14	394	0.299
289	Omalur	Thekampatty	Thekampatty	11.746447	78.116595	20	27/9/2023	Dug Well	8.53	1120	0.3
290	Veerapandi	Senaipalayam	Melayampalayam	11.575238	78.025071	28	18/9/2023	Dug Well	7.82	1405	0.305
291	Veerapandi	Kearaipappampatty	Kattur	11.682052	78.043386	18.2	20/9/2023	Dug Well	8.01	1925	0.315
292	Veerapandi	Rakkipatty	Pudupalayam	11.560582	78.034277	20.7	16/9/2023	Dug Well	7.83	2920	0.323
293	Omalur	Pagalpatti	Boominayakanpatty	11.685203	78.065279	14.6	20/9/2023	Dug Well	8.47	2370	0.335
294	Kadayampatty	Pannapatty	Pannapatty	11.829585	78.070372	12	10-04-2023	Dug Well	8.07	2840	0.345
295	Veerapandi	Kadathur	Agraharam	11.57095	78.05285	19	16/9/2023	Dug Well	7.86	2290	0.352
296	Omalur	Thumbiipadi	Reddypatty	11.790901	78.089454	21	27/9/2023	Dug Well	8.02	2320	0.354
297	Omalur	Thekampatty	Gollapatty Colony	11.74874	78.114332	21	27/9/2023	Dug Well	8.25	1650	0.354
298	Veerapandi	Aarigondumaptty	Ayyamavalvu	11.635408	78.023633	22.9	18/9/2023	Dug Well	8.43	1235	0.356
299	Veerapandi	Kearaipappampatty	Subramaniya Nagar	11.678041	78.041985	27	20/9/2023	Dug Well	7.98	1920	0.389
300	Veerapandi	Papparapatty	Konangadu	11.523148	78.052623	12.3	15/9/2023	Dug Well	7	8590	0.401
301	Kadayampatty	Ku.Kuttapatty	Nagalur	11.81533	78.086999	18.3	10-04-2023	Dug Well	7.95	2950	0.417
302	Veerapandi	Akkarapalayam	Jj Nagar	11.583139	78.095647	17.6	17/9/2023	Dug Well	7.58	5570	0.442
303	Veerapandi	Rakkipatty	Rakkipatty	11.561991	78.043327	13	16/9/2023	Dug Well	8.2	2300	0.442
304	Kadayampatty	Theevattipatty	Theevattipatty	11.867668	78.083843	12.4	10-04-2023	Dug Well	7.01	3520	0.453
305	Veerapandi	Pulavari	Pulavari Keeltheru	11.604665	78.105805	11	17/9/2023	Dug Well	7.83	8250	0.462
306	Veerapandi	Pulavari	Punjaikadu	11.592695	78.109005	19.6	17/9/2023	Dug Well	7.63	4060	0.475
307	Veerapandi	Kearaipappampatty	Pudur	11.688833	78.048179	20.3	19/9/2023	Dug Well	7.89	2340	0.481
308	Veerapandi	Puthur	Muniyappan Koil Kadu	11.621985	78.110078	11.8	18/9/2023	Dug Well	8.13	5180	0.482
309	Omalur	Thekampatty	Senkaradu	11.745916	78.136834	15	27/9/2023	Dug Well	8.21	1285	0.484
310	Kadayampatty	Mookanur	Rasipurathan Kattu Valavu	11.859071	78.058115	14.4	10-03-2023	Dug Well	8.03	1380	0.488
311	Veerapandi	Rakkipatty	Sengodapalayam	11.561999	78.033079	20	16/9/2023	Dug Well	8.15	9980	0.489

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312	Veerapandi	Chennagiri	Erusanampatty	11.536446	78.060854	11.3	15/9/2023	Dug Well	7.26	8530	0.496
313	Omalur	Naranampalayam	Mylapalayam	11.755639	78.086296	19	24/9/2023	Dug Well	8.05	998	0.514
314	Omalur	Ettikuttapatty	Adaikanoor	11.745819	78.073993	21.2	24/9/2023	Dug Well	7.05	1417	0.52
315	Omalur	Sangeethapatty	Sangeethapatty	11.733115	78.083805	13.4	28/9/2023	Dug Well	8.36	837	0.541
316	Omalur	Pottiyapalayam	Kattikaranur	11.775299	78.079629	12	26/9/2023	Dug Well	8.7	1350	0.552
317	Kadayampatty	Semmandapatty	Semmandapatty	11.789837	78.026577	14	28/9/2023	Dug Well	8.62	2800	0.556
318	Veerapandi	Seeragapadi	Makkalur	11.586335	78.053592	19	16/9/2023	Dug Well	7.68	1193	0.575
319	Omalur	Gollapatty	Matalikatupalam	11.737026	78.100558	23	27/9/2023	Dug Well	8	1635	0.575
320	Omalur	Saminayakkanpatty	Panangadu	11.705461	78.088621	15	22/9/2023	Dug Well	8.02	1860	0.581
321	Veerapandi	Uthamasolapuram	Uthamasolapuram	11.610161	78.100454	19.5	17/9/2023	Dug Well	7.56	7010	0.589
322	Veerapandi	Seeragapadi	Chinna Seeragapadi	11.583359	78.0575	15.85	16/9/2023	Dug Well	8.8	966	0.61
323	Kadayampatty	Veppilai	Kongarapatty	11.955067	78.139593	21	10-05-2023	Dug Well	8.11	2840	0.621
324	Kadayampatty	Kanjanayakanpatty	Kottaimedu	11.812935	78.049566	16	10-03-2023	Dug Well	8.15	1495	0.623
325	Kadayampatty	Dharapuram	Kalarkadu	11.80477	78.04985	14	29/9/2023	Dug Well	8.25	3470	0.628
326	Omalur	Semmankoodel	Ellayur	11.702521	78.01761	11.7	21/9/2023	Dug Well	7.96	1660	0.632
327	Kadayampatty	Gundukal	Jodukuli	11.90272	78.052545	11.5	10-03-2023	Dug Well	7.91	1580	0.645
328	Omalur	Sikkampatty	Manganur	11.716996	77.982454	24	21/9/2023	Dug Well	7.92	640	0.65
329	Veerapandi	Rajapalayam	Nainarkadu	11.537248	78.050334	16.7	15/9/2023	Dug Well	7.75	2920	0.654
330	Kadayampatty	Nadupatty	Nadupatty	11.882395	78.092236	15.1	10-04-2023	Dug Well	7.83	2700	0.655
331	Omalur	Pottiyapalayam	Oddatheru	11.789027	78.080903	15	26/9/2023	Dug Well	8.09	2430	0.655
332	Omalur	Moongilpadi	Athuvanamarriaman Koil	11.732498	78.112752	22	28/9/2023	Dug Well	8.92	1560	0.656
333	Kadayampatty	Poosaripatty	Vairan Kadu	11.858188	78.060257	17.5	10-03-2023	Dug Well	7.81	2270	0.662
334	Omalur	P.Nallagoundanpatty	Chiellapillai Kuttai	11.705614	78.078383	20	20/9/2023	Dug Well	8.02	2440	0.662
335	Omalur	Saminayakkanpatty	Saminayakanpatty	11.701747	78.083618	15	22/9/2023	Dug Well	7.61	1860	0.672
336	Omalur	Manguppai	Adikarai	11.694709	78.087502	19.3	22/9/2023	Dug Well	8.21	2670	0.681
337	Omalur	Sangeethapatty	Vetrillaikaranur	11.729751	78.074657	15	28/9/2023	Dug Well	8.66	1915	0.681

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338	Veerapandi	Akkarapalayam	Akkarapalayam	11.569585	78.086391	14.5	17/9/2023	Dug Well	8.02	4670	0.686
339	Veerapandi	Maramangalathupatty	Ajaygarden	11.6749	78.048091	15.2	19/9/2023	Dug Well	8.05	3040	0.688
340	Omalur	Kottagoundampatty	Kattuvalavu	11.702486	78.097967	19.7	22/9/2023	Dug Well	8.21	581	0.689
341	Kadayampatty	Kanjanayakanpatty	Santhanur	11.829533	78.03693	12	10-03-2023	Dug Well	8.47	2150	0.689
342	Omalur	Muthunayakanpatty	Aathukadu	11.709712	78.011281	12.7	22/9/2023	Dug Well	8.59	1890	0.689
343	Veerapandi	Aarigondumaptty	Alagappankadu	11.640528	78.026903	13.2	18/9/2023	Dug Well	8.16	2140	0.693
344	Veerapandi	Murungapatty	Laguvampatty	11.632408	78.034557	19.2	18/9/2023	Dug Well	8.42	2400	0.694
345	Veerapandi	Marrulampalayam	Mayilkadu	11.524603	78.039505	25	15/9/2023	Dug Well	7.67	1915	0.701
346	Omalur	Muthunayakanpatty	Masayanoor	11.708584	78.026275	23	21/9/2023	Dug Well	8.01	1410	0.701
347	Omalur	Naranampalayam	Naranampalayam	11.756255	78.076087	17.4	24/9/2023	Dug Well	8.1	2160	0.702
348	Kadayampatty	Ku.Kuttapatty	Mamarathur	11.815733	78.105403	20	10-04-2023	Dug Well	8.29	1701	0.708
349	Kadayampatty	Poosaripatty	Kanniya Kottai	11.847405	78.052874	18	10-03-2023	Dug Well	8.13	2550	0.71
350	Omalur	Omalur Town	Omalur	11.742116	78.047201	14.6	20/9/2023	Dug Well	8.11	2890	0.716
351	Omalur	Sikkanampatty	Sikkanampatty	11.792351	78.059193	17	27/9/2023	Dug Well	8.24	2610	0.716
352	Veerapandi	Ettimanikampatty	Sengodapalayam	11.560176	78.03292	19	16/9/2023	Dug Well	7.88	1433	0.721
353	Omalur	Sakkarachettypatty	Kottaimedu	11.774985	78.101193	14	26/9/2023	Dug Well	8	3360	0.721
354	Omalur	Manguppai	Palayulchatram	11.689776	78.077208	18	24/9/2023	Dug Well	8.05	2370	0.721
355	Omalur	Kottagoundampatty	Anaikoundampatty	11.712083	78.082899	22	22/9/2023	Dug Well	8.31	1947	0.721
356	Omalur	P.Nallagoundanpatty	Palayanallagoundanpatty	11.698913	78.070658	16	20/9/2023	Dug Well	8.46	2770	0.722
357	Omalur	Thumbiipadi	Sarkapillayur	11.820588	78.088936	20	27/9/2023	Dug Well	8.3	1020	0.728
358	Veerapandi	Uthamasolapuram	Annaikoundar Theru	11.605556	78.090478	15	17/9/2023	Dug Well	7.64	5030	0.736
359	Omalur	Sikkampatty	Mookar Theru	11.709538	77.978076	23.1	21/9/2023	Dug Well	8.61	1750	0.737
360	Veerapandi	Rajapalayam	Arima Nagar	11.536877	78.055337	21.5	15/9/2023	Dug Well	7.82	2820	0.741
361	Veerapandi	Vembadithalam	Thiruvallipatty	11.56191	78.012777	16.8	18/9/2023	Dug Well	8.44	2330	0.742
362	Omalur	Kottamettupatty	Yerikadu	11.743053	78.056606	25	24/9/2023	Dug Well	7.08	650	0.752
363	Omalur	Kottamettupatty	Millagaikaran Kaatu Valavu	11.737941	78.06641	15	24/9/2023	Dug Well	7.75	3780	0.757

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364	Kadayampatty	Dharapuram	Oor Goundan Kottai	11.834652	78.060578	16.6	29/9/2023	Dug Well	8	1810	0.769
365	Omalur	Chellapillaikuttai	Pagalpatty	11.704123	78.057156	15.35	20/9/2023	Dug Well	8.2	1278	0.769
366	Veerapandi	Murungapatty	Mottur	11.636364	78.028376	19.7	18/9/2023	Dug Well	8.12	1985	0.778
367	Veerapandi	Veerapandi	Kasayankadu	11.578606	78.070694	11	17/9/2023	Dug Well	7.5	5960	0.787
368	Omalur	Kamalapuram	Kilakathikadu	11.765585	78.086718	15	27/9/2023	Dug Well	8.2	1180	0.789
369	Omalur	Chellapillaikuttai	Kuppandiyur	11.72519	78.059556	18	20/9/2023	Dug Well	7.95	1130	0.793
370	Omalur	Balpakki	Morrapampatty Colony	11.756879	78.03675	16	26/9/2023	Dug Well	8.23	1013	0.795
371	Veerapandi	Papparapatty	Abraham Lingan St	11.528287	78.058258	15.4	15/9/2023	Dug Well	7.66	3600	0.8
372	Omalur	Sikkanampatty	Kuppur, Ar Colony	11.78588	78.060926	19	27/9/2023	Dug Well	8.19	2010	0.802
373	Veerapandi	Kalparapatty	Keelkattuvalavu	11.592154	78.02964	23	18/9/2023	Dug Well	8.21	2600	0.811
374	Veerapandi	Marrulampalayam	Marulayampalayam	11.522039	78.042032	25.1	15/9/2023	Dug Well	7.75	2590	0.818
375	Kadayampatty	Kanjanayakanpatty	Babichettypatty	11.823893	78.036401	15.8	10-03-2023	Dug Well	8.07	2840	0.821
376	Veerapandi	Perumampatty	Kothanur	11.640187	78.084021	15	18/9/2023	Dug Well	8.05	4260	0.828
377	Veerapandi	Marrulampalayam	Chettikadu	11.524264	78.0374	14.2	15/9/2023	Dug Well	7.72	1765	0.838
378	Omalur	Semmankoodel	Kandam Pichannur	11.693993	78.012424	13.5	21/9/2023	Dug Well	7.86	2400	0.839
379	Omalur	Pottiyapalayam	Ranganpoosarikaatuvalavu	11.77814	78.081547	15	26/9/2023	Dug Well	8.51	1170	0.845
380	Omalur	Semmankoodel	Ar Colony Kandampichannur	11.691135	78.011817	16.6	21/9/2023	Dug Well	7.92	3340	0.851
381	Omalur	P.Nallagoundanpatty	Thattangoddu, Kattuvalavu	11.697328	78.077504	23.5	20/9/2023	Dug Well	8.5	2080	0.853
382	Veerapandi	Kadathur	Ammankoil Kadu	11.566081	78.040781	20.8	16/9/2023	Dug Well	8.06	2760	0.872
383	Omalur	Thumbiipadi	Thinnapatty	11.807234	78.095168	22	27/9/2023	Dug Well	8.4	2450	0.875
384	Omalur	Ettikuttapatty	Seekarapatty	11.746035	78.0664	16.1	24/9/2023	Dug Well	8.12	1636	0.879
385	Veerapandi	Maramangalathupatty	Kattuvalavu	11.676486	78.044992	17.1	19/9/2023	Dug Well	8	2400	0.881
386	Omalur	M.Chettipatty	Vadakukadu	11.734222	78.006547	15	21/9/2023	Dug Well	8.4	2280	0.881
387	Kadayampatty	Bommiyampatty	Palayakinnaru	11.900501	78.115767	31	10-04-2023	Dug Well	7.89	1650	0.887
388	Omalur	Vellakkalpatty	Srinivasanagar	11.717205	78.122714	14	22/9/2023	Dug Well	8.11	1945	0.888
389	Omalur	Semmankoodel	Katchivaliyanoor	11.692759	78.017146	23	21/9/2023	Dug Well	7.95	3630	0.89

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
390	Kadayampatty	Veppilai	Govindapuram	11.971404	78.175894	11.5	10-05-2023	Dug Well	7.99	1340	0.891
391	Kadayampatty	Poosaripatty	Kuravanoor	11.848754	78.079285	14.2	10-03-2023	Dug Well	7.22	1635	0.892
392	Veerapandi	Akkarapalayam	Lakshmanur	11.579612	78.085566	15	17/9/2023	Dug Well	7.45	4190	0.893
393	Omalur	Chellapillaikuttai	Kavandapatty	11.718636	78.060136	16.1	20/9/2023	Dug Well	7.86	2010	0.893
394	Veerapandi	Ettimanikampatty	Andipatty	11.555547	78.039661	20	16/9/2023	Dug Well	8.2	2410	0.898
395	Omalur	Sikkampatty	Sikkampatty	11.709234	77.985404	17.7	21/9/2023	Dug Well	8.64	1665	0.901
396	Omalur	Pachanampatty	Pattapanvalavu	11.743711	7801959	16.3	25/9/2023	Dug Well	8.29	1896	0.902
397	Omalur	Thumbiipadi	Mesthrivallavu	11.808185	78.079316	13.9	27/9/2023	Dug Well	7.98	1940	0.906
398	Omalur	Kottamariyammankoil	Kottakadu	11.725792	78.035446	11	25/9/2023	Dug Well	9.1	1646	0.917
399	Omalur	Gollapatty	Pudur	11.733192	78.093015	15	27/9/2023	Dug Well	8.25	1720	0.924
400	Kadayampatty	Karavalli	Santhanur	11.837412	78.037929	24	29/9/2023	Dug Well	8.17	2110	0.93
401	Veerapandi	Mooduthurai	Melkadu, Naikanpatty	11.640548	78.051403	22	18/9/2023	Dug Well	8.48	1045	0.937
402	Veerapandi	Bairoji	Kakkayantheru	11.567766	78.063027	21.3	16/9/2023	Dug Well	7.9	1897	0.94
403	Veerapandi	Chennagiri	M.R.Kadu	11.537391	78.064625	12	15/9/2023	Dug Well	7.42	8360	0.945
404	Omalur	Saminayakkanpatty	Naiykaltheru	11.70253	78.085675	15.5	22/9/2023	Dug Well	8	2290	0.952
405	Omalur	M.Chettipatty	Mottayan Theru	11.715416	78.000983	16	21/9/2023	Dug Well	8.9	1852	0.953
406	Veerapandi	Veerapandi	Karungalpatiyarkadu	11.587323	78.075473	24.1	17/9/2023	Dug Well	7.63	7600	0.96
407	Omalur	Pagalpatti	Dasangadu,Sengalur	11.689463	78.07331	20	20/9/2023	Dug Well	8.53	3130	0.962
408	Omalur	Tholasampatty	Sottayanur	11.746573	77.980459	14	26/9/2023	Dug Well	8.61	1570	0.97
409	Omalur	Thindamangalam	Panangattur	11.751907	78.006929	14	25/9/2023	Dug Well	8.29	1285	0.971
410	Kadayampatty	Veppilai	Annanagar	11.937859	78.058056	7	10-05-2023	Dug Well	7.62	6540	0.982
411	Omalur	Vellalapatty	Karatukottai	11.744269	78.092155	12	28/9/2023	Dug Well	8.34	1775	0.985
412	Veerapandi	Senaipalayam	Nadartheru	11.572982	78.023337	19	18/9/2023	Dug Well	8.18	2680	0.993
413	Omalur	Sakkarachettypatty	Nalukalpadam	11.773977	78.094888	12	26/9/2023	Dug Well	8.5	1301	0.993
414	Omalur	Sikkampatty	Milgaikaranul	11.712215	77.980718	17.1	21/9/2023	Dug Well	8.01	2170	0.995
415	Kadayampatty	Semmandapatty	S.Mottur	11.787038	78.016457	17	28/9/2023	Dug Well	8.17	1250	1

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
416	Veerapandi	Rakkipatty	Ad Colony	11.563184	78.042407	14.5	16/9/2023	Dug Well	7.57	2850	1.01
417	Omalur	Ettikuttapatty	Indira Nagar	11.746242	78.080094	14	24/9/2023	Dug Well	8.07	1987	1.02
418	Veerapandi	Perumagoundampatty	Redipatty	11.603201	78.027297	32	19/9/2023	Dug Well	8.48	2250	1.03
419	Omalur	Sikkampatty	Perriyakadampatty	11.71557	77.987937	22	21/9/2023	Dug Well	7.93	1715	1.04
420	Omalur	Muthunayakanpatty	Muthunayakanpatty	11.715192	78.033234	14.65	22/9/2023	Dug Well	8.08	2900	1.05
421	Veerapandi	Perumampatty	Perumampatty	11.641225	78.074645	16.8	18/9/2023	Dug Well	8.51	1985	1.05
422	Omalur	Muthunayakanpatty	Manjulayur	11.715068	78.025369	19.6	21/9/2023	Dug Well	8.05	790	1.08
423	Kadayampatty	Semmandapatty	Periyapaty Pirivu	11.803172	78.030484	17	28/9/2023	Dug Well	8.25	2280	1.08
424	Omalur	Pachanampatty	Thimirikottai	11.754725	78.029995	15	25/9/2023	Dug Well	8.36	1025	1.08
425	Omalur	P.Nallagoundanpatty	Puthunallagoundanpatty	11.707525	78.073375	12	20/9/2023	Dug Well	8	2340	1.09
426	Veerapandi	Pulavari	Sithaneri	11.591731	78.096549	15	17/9/2023	Dug Well	7.44	8120	1.1
427	Omalur	Semmankoodel	Semmankoodel	11.696589	78.021159	16.1	21/9/2023	Dug Well	7.82	1910	1.1
428	Kadayampatty	Theevattipatty	Kalarkadu	11.866982	78.07608	22	10-04-2023	Dug Well	7.84	14350	1.1
429	Omalur	Sakkarachettypatty	Puthukadai Colony	11.775382	78.090169	15	26/9/2023	Dug Well	8.21	2160	1.1
430	Omalur	V.Maramangalam	Kataperiyampatty	11.766099	78.00298	16	25/9/2023	Dug Well	8.3	580	1.1
431	Omalur	Tholasampatty	Peaikadu	11.748068	77.967452	15.7	26/9/2023	Dug Well	8.45	1545	1.1
432	Omalur	Periyeeripatty	Palikadu	11.726802	77.987	22	25/9/2023	Dug Well	8.49	1955	1.1
433	Kadayampatty	Danishpet	Gandhinagar	11.877688	78.12603	18.5	10-05-2023	Dug Well	7.91	1835	1.12
434	Omalur	Sikkampatty	Paruthikaranul	11.718187	77.980335	17.7	21/9/2023	Dug Well	8.31	1090	1.12
435	Veerapandi	Maramangalathupatty	Chinnapoosaliyur	11.671105	78.044552	24.2	19/9/2023	Dug Well	8.1	1715	1.13
436	Veerapandi	Bairoji	Pichampalayam	11.543858	78.071555	16.4	16/9/2023	Dug Well	7.69	4500	1.15
437	Kadayampatty	Kannavaiputhur	K.Morur	11.950537	78.200224	30.6	10-05-2023	Dug Well	7.85	4000	1.15
438	Omalur	Pulliyampatty	Mgr Colony	11.73491	78.06018	8.5	22/9/2023	Dug Well	7.98	1480	1.15
439	Kadayampatty	Karavalli	Puthukaravalli	11.843808	78.033244	22	29/9/2023	Dug Well	8.35	3180	1.15
440	Veerapandi	Nallampatty	Maoduthurai	11.657795	78.056317	22.2	18/9/2023	Dug Well	8.35	1843	1.17
441	Veerapandi	Veerapandi	Kuttakadu	11.58501	78.068249	19	17/9/2023	Dug Well	7.47	8310	1.18

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
442	Omalur	Sikkanampatty	Chinna Nadupatty	11.803419	78.067488	21	27/9/2023	Dug Well	8.18	1596	1.18
443	Veerapandi	Kalparapatty	Kombadipatty	11.583279	78.038208	17.6	19/9/2023	Dug Well	8.35	1695	1.18
444	Kadayampatty	Poosaripatty	Poosaripatty	11.83684	78.061607	12.6	10-03-2023	Dug Well	7.54	1233	1.19
445	Omalur	Kamalapuram	Madheswaranvatam	11.763287	78053926	15	27/9/2023	Dug Well	8.34	2160	1.19
446	Omalur	Kamalapuram	Kamalapuram	11.767911	78.061324	12	27/9/2023	Dug Well	8.29	1840	1.2
447	Veerapandi	Akkarapalayam	S.Palampatty	11.569122	78.071833	21	16/9/2023	Dug Well	7.64	3950	1.21
448	Kadayampatty	Bommiyampatty	Vyapurikombai	11.899396	78.129191	25	10-04-2023	Dug Well	8	2410	1.21
449	Omalur	Tholasampatty	Poompatty	11.765984	77.982041	16	26/9/2023	Dug Well	8.22	1710	1.21
450	Veerapandi	Bairoji	Vaadarasampatyy	11.557884	78.0693	25	16/9/2023	Dug Well	7.75	2970	1.22
451	Kadayampatty	Gundukal	Kottalur	11.891547	78.031903	23	10-03-2023	Dug Well	8.37	4610	1.22
452	Kadayampatty	Semmandapatty	Periya Patty	11.804304	78.017903	17.2	28/9/2023	Dug Well	8.19	1935	1.23
453	Kadayampatty	Kongupattu	Kongupatty	11.859397	78.022992	14.2	10-03-2023	Dug Well	8.26	2130	1.23
454	Omalur	Sangeethapatty	Vengaiyanur, Ad Colony	11.728339	78.080662	19	28/9/2023	Dug Well	8.23	2490	1.26
455	Veerapandi	Anaikuttapatty	Anaikuttapatty	11.573854	78.015213	13.2	18/9/2023	Dug Well	8.1	3070	1.28
456	Veerapandi	Senaipalayam	Paraikadu	11.565822	78.019665	12.95	18/9/2023	Dug Well	8.82	2810	1.28
457	Kadayampatty	Nadupatty	Kaatuvalavu	11.893651	78.10039	11.5	10-04-2023	Dug Well	7.73	1515	1.3
458	Omalur	Kottamettupatty	Kariaperumalkoil	11.741138	78.061767	20.1	24/9/2023	Dug Well	7.92	1855	1.3
459	Omalur	Balpakki	Poonaikalur	11.760304	78.040618	19.5	26/9/223	Dug Well	8.17	1530	1.3
460	Omalur	Periyeeripatty	Thanapoosaraivalavu	11.742555	77.982914	11	25/9/2023	Dug Well	8.4	1220	1.3
461	Omalur	Kottagoundampatty	Nallarankadu	11.724691	78.068929	11	22/9/2023	Dug Well	8.01	1278	1.31
462	Omalur	Thindamangalam	Poosaritur	11.750704	78.004722	19	25/9/2023	Dug Well	8.39	875	1.32
463	Omalur	Kottamariyammankoil	Melkandampatty	11.742333	78.03392	22	25/9/2023	Dug Well	7.99	2580	1.35
464	Kadayampatty	Danishpet	Lokur	11.921489	78.167602	14.4	10-05-2023	Dug Well	8.04	1250	1.35
465	Omalur	Semmankoodel	Kariyampatty	11.69556	78.007919	14.2	21/9/2023	Dug Well	8.05	4970	1.35
466	Veerapandi	Kalparapatty	Kombadipatty Valavu	11.582445	78.036108	19	19/9/2023	Dug Well	8.3	3110	1.36
467	Kadayampatty	Kanjanayakanpatty	Kanjanayakanpatty	11.828235	78.04962	14	10-03-2023	Dug Well	8.58	2440	1.38

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
468	Veerapandi	Kalparapatty	Oothukenaru Valaivu	11.587084	78.029829	12.8	18/9/2023	Dug Well	8.17	1435	1.39
469	Omalur	V.Maramangalam	Karuppanampatty	11.762139	78.022719	13	25/9/2023	Dug Well	7.98	2110	1.4
470	Omalur	Thathiyampatty	Chettiyar Theru	11.775286	78.051921	15	26/9/2023	Dug Well	8.27	1810	1.4
471	Omalur	Periyeeripatty	Poothanur	11.729402	77.977078	15	25/9/2023	Dug Well	8.28	1970	1.4
472	Omalur	Balpakki	Kuttakadu	11.768768	78.037203	23	26/9/2023	Dug Well	8.4	2380	1.4
473	Omalur	Pottiyapalayam	Karuthanur	11.783742	78.08527	45	26/9/2023	Dug Well	8.47	2550	1.41
474	Omalur	V.Maramangalam	Pudur	11.756642	78.003934	14.5	25/9/2023	Dug Well	8.7	2120	1.41
475	Veerapandi	Rajapalayam	Karrikatanpalayam	11.54866	78.052204	30	15/9/2023	Dug Well	7.8	7450	1.42
476	Omalur	Kottamariyammankoil	Peramachal	11.729338	78.04986	13.7	25/9/2023	Dug Well	8.26	2260	1.42
477	Omalur	Sakkarachettypatty	Jallikatuvalavu	11.776454	78.098696	22	26/9/2023	Dug Well	8.5	1490	1.42
478	Omalur	Kamalapuram	Rc Chetty Patty	11.760486	78.058554	18	27/9/2023	Dug Well	8.02	1030	1.45
479	Omalur	Tholasampatty	Ramakrishnanur	11.75966	77.972622	5.5	26/9/2023	Dug Well	7.92	1098	1.5
480	Omalur	Kottamettupatty	Kottamettupatty	11.737478	78.062004	13	24/9/2023	Dug Well	8	2350	1.5
481	Omalur	M.Chettipatty	Nayakartheru	11.730401	78.005894	17	21/9/2023	Dug Well	8.18	3120	1.51
482	Omalur	Sikkampatty	Perriyakadampatty Colony	11.712237	77.993923	19.4	21/9/2023	Dug Well	7.91	1860	1.52
483	Veerapandi	Bairoji	Pudhupalayam	11.552594	78.066423	16	16/9/2023	Dug Well	7.79	3650	1.53
484	Omalur	Kamalapuram	Ad Colony	11.775007	78.063463	21	27/9/2023	Dug Well	8.05	2090	1.53
485	Veerapandi	Seeragapadi	Periya Seeragapadi	11.582688	78.044943	18.6	16/9/2023	Dug Well	7.86	3590	1.55
486	Omalur	Manguppai	Ar Colony	11.69762	78.079936	23	24/92023	Dug Well	8	4210	1.55
487	Kadayampatty	Gundukal	Erikadu	11.900407	78.041224	12	10-03-2023	Dug Well	8.31	1030	1.56
488	Veerapandi	Murungapatty	Pappikuttai	11.631896	78.04506	20	18/9/2023	Dug Well	8.38	1270	1.57
489	Veerapandi	Kalparapatty	Sevampalayam	11.591564	78.036156	18.5	19/9/2023	Dug Well	8.2	2330	1.59
490	Omalur	Vellalapatty	Mullai Nagar	11.756424	78.102787	20	28/9/2023	Dug Well	8.31	1545	1.59
491	Kadayampatty	Pannapatty	Kangayanur	11.829854	78.083356	16.1	10-04-2023	Dug Well	7.95	1340	1.61
492	Omalur	Muthunayakanpatty	Olaipatty	11.699835	78.038862	26	22/9/2023	Dug Well	8.34	1592	1.62
493	Omalur	Thindamangalam	Erikadu	11.755698	78.012254	18.8	25/9/2023	Dug Well	8.35	1828	1.62

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
494	Omalur	Pagalpatti	Tholur	11.692682	78.060931	17	20/9/2023	Dug Well	8.69	2570	1.62
495	Kadayampatty	Pannapatty	Maragoundan Puthur	11.838645	78.076725	12	10-04-2023	Dug Well	7.84	1740	1.63
496	Kadayampatty	Mookanur	Mookanur	11.858258	78.046078	13.7	10-03-2023	Dug Well	8.07	2570	1.64
497	Veerapandi	Kadathur	Parayan Kattu Valavu	11.565935	78.057251	21.8	16/9/2023	Dug Well	7.53	3960	1.65
498	Omalur	Muthunayakanpatty	Palakuttapath	11.695949	78.031106	19	22/9/2023	Dug Well	8.05	1797	1.65
499	Veerapandi	Puthur	Itchimartha Kadu	11.635001	78.103709	15.3	18/9/2023	Dug Well	7.58	4240	1.66
500	Veerapandi	Pulavari	Kallikadu	11.603008	78.103382	14	17/9/2023	Dug Well	7.62	7300	1.67
501	Omalur	Sakkarachettypatty	Venganur	11.776608	78.086458	14	26/9/2023	Dug Well	8.62	4120	1.67
502	Veerapandi	Puthur	Malangadu	11.628592	78.09294	20	18/9/2023	Dug Well	7.68	1365	1.69
503	Omalur	Thindamangalam	Veppamarathur	11.749628	78.008725	17.25	25/9/2023	Dug Well	8.47	1280	1.7
504	Omalur	Pagalpatti	Ramanur	11.71065	78.062554	11.75	20/9/2023	Dug Well	8.35	2280	1.71
505	Omalur	Periyeeripatty	Reddypatty	11.737187	77.995267	9	25/9/2023	Dug Well	8.41	2630	1.72
506	Omalur	Pachanampatty	Pachanampatty	11.746325	78.026853	21.4	25/9/2023	Dug Well	8.18	1644	1.75
507	Omalur	Vellalapatty	Vellalapatty	11.749261	78.0997	12	28/9/2023	Dug Well	8.51	2250	1.76
508	Veerapandi	Veerapandi	Sandaipettai	11.573728	78.072865	17	17/9/2023	Dug Well	7.67	3540	1.77
509	Kadayampatty	Umbilikampatty	Umbilikampatty	11.902866	78.10984	10	10-04-2023	Dug Well	8.06	1590	1.78
510	Veerapandi	Perumampatty	Near Mariamman Koil	11.640053	78.0745	15	18/9/2023	Dug Well	8.24	3210	1.79
511	Omalur	Pagalpatti	Dasanaikanpatty	11.684129	78.055869	15.8	20/9/2023	Dug Well	8.3	3120	1.79
512	Veerapandi	Papparapatty	Perrumbarai Road	11.532101	78.062805	15	15/9/2023	Dug Well	7.71	6280	1.81
513	Veerapandi	Kalpalapatti	Kothukarankadu	11.579717	78.022565	15	18/9/2023	Dug Well	8	1995	1.81
514	Kadayampatty	Bommiyampatty	Melkombai	11.912356	78.127081	19	10-04-2023	Dug Well	7.89	1610	1.82
515	Veerapandi	Arr Colony	Rajapalayam	11.552942	78.048174	15	15/9/2023	Dug Well	8.2	5260	1.84
516	Omalur	Muthunayakanpatty	Kalarpattu	11.702791	78.02639	12	21/9/2023	Dug Well	7.97	1995	1.85
517	Veerapandi	Perumagoundampatty	Perumagoundampatty	11.596949	78.010942	14.2	19/9/2023	Dug Well	7.97	3790	1.88
518	Kadayampatty	Karavalli	Chinnatirupathy	11.825545	78..029407	16.8	29/9/2023	Dug Well	8.41	730	1.9
519	Omalur	Pagalpatti	Kallikoil,Dasanaikanpatty	11.686401	78.055397	26	20/9/2023	Dug Well	8.24	2760	1.93

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
520	Veerapandi	Kalparapatty	Miniyanur	11.590535	78.0318	21.4	19/9/2023	Dug Well	7.88	3040	1.95
521	Omalur	Kottagoundampatty	Ad Colony	11.719407	78.06902	18	22/9/2023	Dug Well	7.92	1000	1.95
522	Omalur	Muthunayakanpatty	Marathukuttai	11.695648	78.025473	12.8	22/9/2023	Dug Well	8.01	2200	1.95
523	Veerapandi	Vembadithalam	Sellimpalayam	11.557513	78.022681	25	18/9/2023	Dug Well	8.17	4440	1.95
524	Omalur	Muthunayakanpatty	Konakaratukadu	11.709182	78.015596	22.5	21/9/2023	Dug Well	8.42	1805	1.95
525	Omalur	Chellapillaikuttai	Chellapillai Kuttai Colony	11.710741	78.055743	22	20/9/2023	Dug Well	8.16	1015	1.96
526	Veerapandi	Ettimanikampatty	Ettimanikampatty	11.557546	78.04385	16.75	15/9/2023	Dug Well	8.1	2830	1.97
527	Kadayampatty	Dharapuram	Dharapuram	11.789264	78.047465	21	29/9/2023	Dug Well	8.09	2660	1.99
528	Veerapandi	Ettimanikampatty	Ettimanikampatty	11.55829	78.043385	13	15/9/2023	Dug Well	8.1	3600	2.01
529	Kadayampatty	Kannavaiputhur	Selvasamuthram	11.954573	78.227558	16	10-05-2023	Dug Well	7.47	2420	2.03
530	Veerapandi	Kalparapatty	Kalparapatty	11.586395	78.026601	10.5	18/9/2023	Dug Well	8.3	3450	2.03
531	Kadayampatty	Nadupatty	Thalavaipatty	11.890365	78.080039	11.6	10-04-2023	Dug Well	8.02	1235	2.05
532	Kadayampatty	Kannavaiputhur	Kannavaiputhur	11928375	78.180836	15.4	10-05-2023	Dug Well	8.12	1210	2.05
533	Veerapandi	Anaikuttapatty	Komlukaranvalavu	11.577936	78.02116	15	19/9/2023	Dug Well	8.02	4520	2.08
534	Veerapandi	Akkarapalayam	Pottakadu	11.568715	78.078137	6.5	16/9/2023	Dug Well	8.19	1901	2.12
535	Veerapandi	Perumagoundampatty	Mariamman Koil	11.592511	78.014067	21	19/9/2023	Dug Well	7.85	1510	2.19
536	Veerapandi	Seeragapadi	Opp To Panchayat Off Periyaseeragapdi	11.579038	78.056128	15.2	16/9/2023	Dug Well	7.85	1830	2.21
537	Omalur	Muthunayakanpatty	Maniyagoundan Theru	11.711255	78.028383	18	21/9/2023	Dug Well	8.01	1652	2.24
538	Veerapandi	Perumampatty	Chinnayur	11.645574	78.087724	16.65	18/9/2023	Dug Well	8.08	2810	2.24
539	Omalur	Naranampalayam	Molandipatty Colony	11.742457	78.0856	18	24/9/2023	Dug Well	8.4	3430	2.24
540	Omalur	Periyeeripatty	Vavuthanur	11.734996	77.975542	13	25/9/223	Dug Well	7.99	1074	2.31
541	Omalur	M.Chettipatty	Kuttigoundan Theru	11.732175	78.008767	22	21/9/2023	Dug Well	8.59	1846	2.31
542	Veerapandi	Kalparapatty	Shakthi Nagar	11.58665	78.029741	9	19/9/2023	Dug Well	8.04	2300	2.35
543	Veerapandi	Aarigondumaptty	Sitharakoil	11.62718	78.031102	23.9	18/9/2023	Dug Well	8.4	4860	2.36
544	Omalur	Pulliyampatty	Kuditheru	11.732303	78.058214	10.45	22/9/2023	Dug Well	8.05	2570	2.42
545	Kadayampatty	Umbilikampatty	Kaatuvalavu	11.907832	78.111616	25	10-04-2023	Dug Well	7.87	2250	2.44

Sr.NO	Block	Panchayath	Location	latitude	Longitude	Depth in m	Date of Collection	Type of Well	pH	EC µS/cm	F- mg/l
546	Omalur	Kottamariyammankoil	Velagoundanur	11.727166	78.02808	18.5	25/9/2023	Dug Well	7.5	1265	2.53
547	Omalur	Pulliyampatty	Ad Colony	11.733333	78.061299	14.8	22/9/2023	Dug Well	7.94	2480	2.59
548	Omalur	Kottagoundampatty	Vasanthamnagar	11.716101	78.076956	13.6	22/9/2023	Dug Well	8.02	2190	2.59
549	Kadayampatty	Danishpet	Periyavadagampatty	11.885399	78.144771	14	10-05-2023	Dug Well	8.03	1410	2.63
550	Omalur	Kottamettupatty	Chinnadaikanoor	11.746472	78.061211	16	24/9/2023	Dug Well	7.94	3690	2.67
551	Kadayampatty	Ku.Kuttapatty	Kottaimedu	11.82634	78.098833	33	10-04-2023	Dug Well	8	2830	2.7
552	Omalur	Thathiyampatty	Ad Colony	11.776686	78.044199	13	26/9/2023	Dug Well	8.81	1624	2.7
553	Omalur	Thathiyampatty	Kottankatuvalavu	11.784957	78.051602	9	26/9/2023	Dug Well	8.74	3000	2.8
554	Omalur	Tholasampatty	Tholasampatty	11.753366	77.973687	11	26/9/2023	Dug Well	8.78	2710	2.96
555	Kadayampatty	Kannavaiputhur	Ramamurthynagar	11.971361	78.230629	22	10-05-2023	Dug Well	7.87	1635	2.99
556	Omalur	Pulliyampatty	Thoppucolony	11.733013	78.059698	9.5	22/9/2023	Dug Well	8.03	2010	3.2
557	Omalur	Tholasampatty	T.Reddypatty	11.745321	77.991124	11	26/9/2023	Dug Well	8.54	1570	3.23
558	Kadayampatty	Karavalli	Kandasamy Koil	11.852734	78.040592	17.2	29/9/2023	Dug Well	8.15	3240	3.43
559	Omalur	M.Chettipatty	Valluvar Nagar	11.730269	78.009172	16.2	21/9/2023	Dug Well	8.22	4610	3.86
560	Omalur	V.Maramangalam	Panjukalipatty	11.68449	78.012657	13	25/9/2023	Dug Well	8.84	2760	4.62

3. Post Monsoon Water Sampling Locations

Sl.No	Block	Location	Latitude	Longitude	Well Type	pH	EC	TH	Ca	Mg	Na	K	CO3	HCO3	Cl	SO4	NO3	F	U
							µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
1	Veerapandi	Akkarapalayam	11.56389	78.07108	DW	7.60	8780	1650	200	279	1260	5	NIL	1098	2070	470	105.4	1.6	7.6
2	Veerapandi	Aanaikuttapatty	11.57048	78.01972	DW	7.49	6140	1000	140	158	952	5	NIL	805	1418	390	12.4	1.2	3.2
3	Veerapandi	Aanaikuttapatty	11.576993	78.020042	BW	7.98	4530	420	48	73	849	5	NIL	360	1056	394	93	0.7	1.2
4	Veerapandi	Aarigoundampatty	11.63841	78.02571	DW	7.68	5070	1000	80	194	706	5	NIL	1056	993	264	0.3	1.7	1.7
5	Veerapandi	Aarigoundampatty	11.649304	78.008083	BW	7	3430	1000	188	129	329	5	NIL	513	638	240	186	1.1	1.8
6	Veerapandi	Ettimanickampatty	11.55583	78.04504	DW	7.48	5430	1200	152	199	697	5	NIL	763	1134	456	10.9	1.2	4.1
7	Veerapandi	Inampiroji	11.56781	78.06311	DW	7.27	3610	1000	156	148	368	6	NIL	616	610	336	104.5	1.2	4.1
8	Veerapandi	Inampiroji	11.560994	78.067566	BW	7.47	7820	1800	204	314	968	5	NIL	738	1957	510	18.6	1.6	6.0
9	Veerapandi	Kadathur	11.55727	78.04611	DW	7.3	3930	1000	100	182	439	5	NIL	757	709	312	11.6	1.9	4.8
10	Veerapandi	Kalparapatty	11.58735	78.03078	DW	7.72	5890	1220	160	199	794	5	NIL	781	1347	355	51.3	1.9	6.3
11	Veerapandi	Kalparapatty	11.590511	78.037084	BW	7.75	2080	500	240	24	248	5	NIL	476	298	206	38.3	0.5	0.4
12	Veerapandi	Keeraipappampady	11.67076	78.04753	BW	7.69	1747	230	32	36	292	5	NIL	586	170	96	69	1.3	0.1
13	Veerapandi	Mooduthurai	11.65709	78.05289	BW	7.38	2280	400	104	34	338	5	NIL	671	298	91	93	1.8	0.6
14	Veerapandi	Murungapatty	11.64123	78.04148	DW	7.33	1633	395	62	58	193	5	NIL	519	152	96	93	2.1	0.1
15	Veerapandi	S.Papparapatty	11.528287	78.058258	DW	7.41	1690	440	80	58	186	5	NIL	409	280	91	37.2	0.3	0.1
16	Veerapandi	Periya Seeragapadi	11.579038	78.056128	DW	7.55	3870	400	100	36	704	7	NIL	616	794	250	66.1	1.8	0.9
17	Veerapandi	Perumampatty	11.64075	78.0799	DW	7.48	6330	1400	104	277	810	5	NIL	555	1319	758	72.9	1.6	7.0
18	Veerapandi	Perumampatty	11.642687	78.08497	BW	7.57	3320	500	104	58	531	5	NIL	781	510	288	7.8	1.7	3.8
19	Veerapandi	Perumagoundampatty	11.59507	78.00585	DW	7.68	5590	1000	104	180	826	5	NIL	1342	1064	144	69.2	1.6	8.1
20	Veerapandi	Perumagoundampatty	11.594178	78.000594	BW	7	4580	900	120	146	639	5	NIL	683	904	346	124	1.6	10.6
21	Veerapandi	Pulavari	11.60558	78.10658	DW	7.45	6680	1000	100	182	1076	5	NIL	830	1436	480	172.6	2.1	8.3
22	Veerapandi	Puthur	11.6227	78.11635	DW	7.9	3950	600	84	95	633	5	NIL	989	652	216	31	1.6	0.8
23	Veerapandi	Rajapalayam	11.55583	78.04504	DW	7.47	1591	480	60	80	145	5	NIL	604	149	91	3	1.4	0.1

Sl.No	Block	Location	Latitude	Longitude	Well Type	pH	EC	TH	Ca	Mg	Na	K	CO3	HCO3	Cl	SO4	NO3	F	U
							µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
24	Veerapandi	Rajapalayam	11.53658	78.050851	BW	7	2980	910	132	141	267	5	NIL	537	390	480	20.5	1.8	2.4
25	Veerapandi	Senaipalayam	11.56628	78.02792	BW	7.54	3270	640	72	112	458	5	NIL	928	390	192	167.4	1.1	1.9
26	Veerapandi	Veerapandi	11.58502	78.06821	DW	7.59	3400	504	60	86	547	6	NIL	928	425	202	161.2	1.9	2.0
27	Veerapandi	Veerapandi	11.576172	78.070847	BW	7.44	1270	530	82	79	46	5	NIL	427	64	120	93	0.5	0.4
28	Veerapandi	Vembadithalam	11.561364	78.012731	DW	7.3	3950	500	104	58	676	6	NIL	543	709	480	37.6	0.9	3.4
29	Veerapandi	Vembadithalam	11.56944	78.01391	BW	7.34	2260	1000	160	146	58	5	NIL	482	369	192	19.84	0.8	1.5
30	Kadayampatty	Bommiayampatty	11.86895	78.11635	DW	7.28	2090	640	208	29	184	5	NIL	696	191	144	68.1	0.8	1.1
31	Kadayampatty	Bommiayampatty	11.89942	78.115542	BW	7	1659	615	112	81	97	5	NIL	464	202	110	72.6	0.8	2.4
32	Kadayampatty	Deevattipatty	11.87532	78.08498	DW	7.87	2200	880	72	170	99	5	NIL	659	294	77	80.6	1.0	2.1
33	Kadayampatty	Denishpet	11.87797	78.14736	DW	7.63	2030	750	32	163	120	5	NIL	671	248	72	49.6	0.9	0.8
34	Kadayampatty	Denishpet	11.874544	78.131669	BW	7	3500	1200	68	250	253	5	NIL	610	695	168	117.8	1.0	5.6
35	Kadayampatty	Dharapuram	11.7893	78.0474	BW	7.72	1956	720	88	122	117	5	NIL	610	284	62	18.6	1.2	2.7
36	Kadayampatty	Kanavaiputhur	11.953062	78.228101	BW	7	2290	720	116	105	191	6	NIL	635	347	58	99.2	0.4	3.4
37	Kadayampatty	Kanjanaikanpatty	11.82358	78.0454	DW	7.78	1114	510	58	89	21	5	NIL	427	71	53	62	1.7	1.0
38	Kadayampatty	Karuvalli	11.84368	78.02971	DW	8.03	3100	1060	96	199	223	5	NIL	482	610	226	74.4	1.5	3.9
39	Kadayampatty	Karuvalli	11.846127	78.029841	BW	7.59	2830	750	124	107	304	9	NIL	610	546	125	31.6	1.3	4.0
40	Kadayampatty	Kongupatty	11.86038	78.02186	DW	7	1947	700	60	134	124	5	NIL	323	319	168	111.6	1.1	1.9
41	Kadayampatty	Ku.Kuttapatty	11.81246	78.08035	BW	7.7	1575	335	44	55	207	5	NIL	506	149	48	147.4	2.4	0.3
42	Kadayampatty	Mookanur	11.8575	78.05289	DW	7	1357	470	76	68	94	5	NIL	427	156	72	44.4	1.2	0.6
43	Kadayampatty	Nadupatty	11.88228	78.09211	DW	7.75	2320	720	100	114	202	5	NIL	622	319	144	74.4	1.3	2.0
44	Kadayampatty	Nadupatty	11.892864	78.099653	BW	7	1912	700	136	87	117	7	NIL	500	241	125	99.2	0.8	1.9
45	Kadayampatty	Pannapatty	11.82821	78.07215	BW	7.59	1103	535	72	86	7	5	NIL	427	71	70	28.4	0.9	0.7
46	Kadayampatty	Poosaripatty	11.83684	78.06397	DW	7	2830	1200	148	202	101	0.2	NIL	415	440	384	80.6	1.5	4.0
47	Kadayampatty	Semmandapatty	11.79189	78.03256	DW	7	2320	870	124	136	136	0.2	NIL	494	340	211	74.4	0.8	2.9
48	Kadayampatty	Semmandapatty	11.79189	78.03256	BW	7.98	2200	910	104	158	87	4.5	NIL	488	319	192	80.6	1.5	3.4

Sl.No	Block	Location	Latitude	Longitude	Well Type	pH	EC	TH	Ca	Mg	Na	K	CO3	HCO3	Cl	SO4	NO3	F	U
							µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
49	Kadayampatty	Umbilikampatty	11.9002	78.10994	BW	7.88	1016	115	18	17	179	0.2	NIL	427	71	53	7.44	1.7	0.3
50	Omalur	Balpakki	11.75732	78.042	BW	7.7	1053	190	26	30	152	0.2	NIL	409	71	72	12.4	1.4	0.9
51	Omalur	Kamalapuram	11.77091	78.05753	DW	7	2040	760	124	109	117	0.9	NIL	500	326	96	62	1.1	2.7
52	Omalur	Kamalapuram	11.767174	78.089284	BW	8.02	986	380	54	60	51	0.8	NIL	268	145	34	36.9	1.2	0.2
53	Omalur	Sakkarachettypatti	11.77485	78.09283	DW	7.78	2910	840	60	168	281	0.5	NIL	677	560	48	71.5	2.6	4.6
54	Omalur	Sakkarachettypatti	11.775501	78.090251	BW	7	2780	1280	164	211	48	0.8	NIL	555	404	269	99.2	0.9	4.2
55	Omalur	Sikkanampatty	11.79576	78.05788	BW	7.9	1037	450	20	97	30	1.3	NIL	427	35	93	17.6	0.3	0.1
56	Omalur	Tathiyampatty	11.77292	78.06539	DW	7.71	2240	540	80	83	267	0.7	NIL	610	333	77	92.5	1.2	2.1
57	Omalur	Thumbipadi	11.82069	78.08904	BW	7	2310	800	68	153	156	10.7	NIL	592	397	96	15.5	1.2	5.7
58	Omalur	Periyeripatty	11.73284	77.97954	DW	7	2510	770	80	139	219	5.9	NIL	732	355	77	80.9	2.1	2.9
59	Omalur	Periyeripatty	11.73699	77.976869	BW	7	4660	1600	88	335	334	9.2	NIL	622	723	638	167.8	1.5	7.5
60	Omalur	Pachinampatty	11.732	78.01401	DW	7.82	2820	800	108	129	271	18.4	NIL	647	489	120	99.2	0.9	3.7
61	Omalur	Pachinampatty	11.722791	78.030112	BW	7.04	865	350	132	5	37	2.2	NIL	183	106	91	55.8	0.5	0.9
62	Omalur	Tholasampatty	11.75385	77.97525	DW	7.1	1525	655	102	97	46	1.7	NIL	348	184	158	49.2	0.6	0.4
63	Omalur	Tholasampatty	11.751046	77.982137	BW	7	3100	1300	220	182	110	6.0	NIL	488	418	504	32.2	0.9	5.4
64	Omalur	Thindamangalam	11.74971	78.01115	DW	7.1	3230	600	20	134	462	3.4	NIL	1031	436	126	15.1	2.4	2.1
65	Omalur	U.Maramangalam	11.768438	78.012568	DW	7.13	3370	720	112	107	435	20.2	NIL	598	532	408	29.7	1.6	10.6
66	Omalur	U.Maramangalam	11.758991	78.021435	BW	7.42	2480	610	80	100	290	5.3	NIL	580	440	139	12.4	0.9	1.8
67	Omalur	Kottai Mariamman Kovil	11.73555	78.03185	DW	7.1	3660	1080	68	221	331	14.4	NIL	574	702	221	158.7	1.0	13.8
68	Omalur	Muthunaikanpatty	11.71889	78.0347	DW	7.11	2120	630	108	87	198	4.1	NIL	439	248	230	144.8	1.0	1.4
69	Omalur	Muthunaikanpatty	11.710042	78.026482	BW	7.1	3020	520	76	80	451	12.2	NIL	714	454	206	89.4	2.1	6.5
70	Omalur	Semman Koodal	11.7055	78.01579	BW	7.15	3210	960	152	141	297	5.1	NIL	677	425	360	86.8	1.8	5.2
71	Omalur	Sikkampatty	11.70953	77.98689	DW	7.24	2830	770	136	105	285	14.3	NIL	580	397	274	105.4	0.9	2.2
72	Omalur	Sikkampatty	11.715839	77.988471	BW	7.23	2810	1000	180	134	186	2.7	NIL	439	397	408	80.6	0.7	4.2
73	Omalur	M.Chettipatty	11.73063	78.01023	DW	7.23	3690	840	156	109	460	6.9	NIL	690	596	336	117.8	0.3	4.5

Sl.No	Block	Location	Latitude	Longitude	Well Type	pH	EC	TH	Ca	Mg	Na	K	CO3	HCO3	Cl	SO4	NO3	F	U
							µS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ppb
74	Omalur	Pagalpatty	11.68727	78.0643	DW	7.43	2870	730	136	95	322	7.5	NIL	513	404	384	49	1.4	11.3
75	Omalur	Pagalpatty	11.686994	78.056051	DW	7.19	3360	900	132	139	357	1.5	NIL	506	532	418	99.2	1.7	5.0
76	Omalur	P.Nallagoundampatty	11.69522	78.06216	BW	7.19	2390	700	96	112	230	4.5	NIL	452	291	384	41.4	1.1	6.5
77	Omalur	Sellapillaikuttai	11.71999	78.05253	DW	7.5	2180	450	56	75	294	2.9	NIL	543	241	206	114.3	1.1	1.2
78	Omalur	Sellapillaikuttai	11.726148	78.057737	BW	7.34	3260	1000	172	139	290	2.1	NIL	561	447	494	38.4	1.5	12.4
79	Omalur	Vellalapatty	11.7527	78.09853	DW	7.16	2040	500	84	70	235	7.5	NIL	519	227	250	12.6	1.5	5.8
80	Omalur	Sangeethapatty	11.73314	78.09104	DW	7.17	1749	285	46	41	265	10.4	NIL	476	206	144	60.5	1.4	1.5
81	Omalur	Moongilpadi	11.74118	78.1141	BW	7.06	1976	660	112	92	145	9.4	NIL	580	227	158	44.4	1.1	2.6
82	Omalur	Naranampalayam	11.75793	78.07327	DW	7.46	3100	560	56	102	455	3.1	NIL	848	369	240	122.5	3.1	1.9
83	Omalur	Naranampalayam	11.74348	78.084792	BW	7.56	1380	415	84	50	124	3.5	NIL	378	128	144	52.1	0.4	0.1
84	Omalur	Kottamettupatty	11.73365	78.06145	DW	7.5	2420	700	108	105	230	2.9	NIL	629	305	168	103.3	1.4	2.1
85	Omalur	Kottamettupatty	11.73365	78.06145	BW	7.17	1536	335	58	46	191	13.4	NIL	488	138	120	59.6	1.3	1.7
86	Omalur	Puliyampatty	11.73219	78.06002	DW	7.52	1873	240	50	28	317	9.7	NIL	610	227	110	4.6	0.6	0.3
87	Omalur	Manguppai	11.69059	78.07678	DW	7.55	1685	465	56	79	161	17.9	NIL	592	174	82	22.9	0.7	2.7
88	Omalur	Manguppai	11.698017	78.0808	BW	7.54	1813	450	44	83	191	31.1	NIL	586	149	144	76.6	1.3	1.0
89	Omalur	Kottagoundampatty	11.71947	78.06901	DW	7.62	1590	575	100	79	99	2.2	NIL	482	135	168	35.8	1.2	0.8
90	Omalur	Kottagoundampatty	11.719225	78.068956	BW	7.35	1050	430	86	52	43	2.2	NIL	354	82	72	53	1.3	0.1

Annexure-III- VES and TEM Interpretation Data

S.No	Block	VES Location	Longitude	Latitude	Top Soil depth in m	Weathered Zone depth in m	Fractured Zone depth in m	Total Interpreted Depth in m	Fractures encountered Depth in m
1	Kadayampatti	Danishpet	78.129975	11.862552	1.16	26.26	240	300	240
2	Kadayampatti	Deevattipatti	78.078626	11.867669	0.6	6.18	200	220	200
3	Kadayampatti	GHSS Morur SS1	78.207908	11.952287	0.9	10.6	10.6	120	Nil
4	Kadayampatti	GHSS Morur SS2	78.207865	11.951938	0.6	9.6	9.6	90	Nil
5	Kadayampatti	GHSS Morur SS3	78.207184	11.951531	0.7	9.4	9.4	180	Nil
6	Kadayampatti	GHSS Nadupatti SS1	78.089208	11.879406	0.3	5.1	110	140	110
7	Kadayampatti	GHSS Nadupatti SS2	78.089745	11.879612	0.6	21	160	220	160
8	Kadayampatti	GHSS Nadupatti SS3	78.088089	11.879155	1.8	15	130	240	130
9	Kadayampatti	GHSS Nadupatti SS4	78.088119	11.879813	0.4	13.4	160	220	120,140&160
10	Kadayampatti	GHSS Pannapatti SS1	78.074327	11.828034	1	15.6	80	220	80
11	Kadayampatti	Gundikkal	78.028558	11.889345	1.48	15.18	140	200	140
12	Kadayampatti	Jodukuli	78.052689	11.902766	1.34	17.24	160	220	160
13	Kadayampatti	Kanavaipudur	78.214856	11.964733	1.5	11.37	180	260	180
14	Kadayampatti	Kanjanaickanpatti	78.051221	11.840471	1.13	13.43	140	250	140
15	Kadayampatti	Kongupatti SS1	77.991271	11.858982	0.9	6.3	200	200	200
16	Kadayampatti	Kongupatti SS2	77.99041	11.856427	1.5	25	160	220	160
17	Kadayampatti	Kongupatti SS3	77.990589	11.856301	3.97	25.47	190	240	190
18	Kadayampatti	Model School, Kadayampatti	78.113054	11.880014	1.02	24.32	24.32	110	Nil
19	Kadayampatti	Model School, Kadayampatti 2	78.113056	11.879881	1.3	14.6	14.6	240	Nil
20	Kadayampatti	Model School, Kadayampatti 3	78.113651	11.880291	1.43	13.93	220	300	220
21	Kadayampatti	Mookanur	78.051071	11.863727	0.71	12.91	280	300	280
22	Kadayampatti	Nachampatti	78.078501	11.888869	1.74	12.84	12.84	140	Nil
23	Kadayampatti	Poosaripatti	78.056167	11.844473	1.52	25.82	160	260	160

S.No	Block	VES Location	Longitude	Latitude	Top Soil depth in m	Weathered Zone depth in m	Fractured Zone depth in m	Total Interpreted Depth in m	Fractures encountered Depth in m
24	Kadayampatti	Tholasampatti	77.9818958	11.7610521	1.39	7.89	7.89	150	Nil
25	Kadayampatti	Thoppur	78.065567	11.929197	0.87	35.6	220	300	220
26	Kadayampatti	Thumbaipadi	78.071444	11.80076	1.23	1.23	1.23	220	Nil
27	Kadayampatti	Vadamaneri	78.056596	11.823298	1.18	14.53	160	300	160
28	Kadayampatti	Veppilai	78.196127	11.971142	1.26	17.06	17.06	240	Nil
29	Omalur	Anaikavundanpatti	78.091363	11.711965	1.92	30.72	180	200	90&180
30	Omalur	Chekkarapatti	78.06246	11.748066	1.3	2.86	130	130	130
31	Omalur	Chellapillaikuttai	78.058082	11.70788	1.93	32.83	180	220	180
32	Omalur	Collapatti	78.097099	11.738342	1.63	36.43	36.43	300	Nil
33	Omalur	Ettikuttaipatti	78.084871	11.742743	4.63	11.08	220	260	220
34	Omalur	GHS Pagalpatti SS1	78.056287	11.6979	1.6	12.6	90	100	90
35	Omalur	GHS Pagalpatti SS2	78.056334	11.697978	0.7	14.6	14.6	100	Nil
36	Omalur	GHSS Dharapuram SS1	78.044746	11.786348	1	27.8	130	130	130
37	Omalur	GHSS Dharapuram SS2	78.044594	11.785833	1.25	8.75	130	220	130
38	Omalur	GHSS Dharapuram SS3	78.044505	11.785834	1	22.3	130	240	130
39	Omalur	GHSS Dharapuram SS4	78.044611	11.785918	0.7	20.3	180	220	180
40	Omalur	GHSS Kamandapatti SS1	78.035583	11.750783	0.7	19.3	110	150	110
41	Omalur	GHSS Kamandapatti SS2	78.036231	11.750451	0.7	14	90	220	90
42	Omalur	GHSS Kamandapatti SS23	78.035481	11.750085	1.6	11.1	70	200	70
43	Omalur	GHSS Vellalapatti SS1	78.099742	11.745896	2.3	21.5	21.5	110	Nil
44	Omalur	GHSS Vellalapatti SS2	78.09985	11.745818	1.9	27.7	27.7	90	Nil
45	Omalur	Gobinathapuram	78.100584	11.771305	1.28	17.58	17.58	215	Nil
46	Omalur	Jagadevampatti	78.115684	11.756497	0.6	27.7	240	300	240
47	Omalur	Kamalapuram	78.076448	11.765324	1.28	7.56	7.56	180	Nil

S.No	Block	VES Location	Longitude	Latitude	Top Soil depth in m	Weathered Zone depth in m	Fractured Zone depth in m	Total Interpreted Depth in m	Fractures encountered Depth in m
48	Omalur	Kaminaickanpatti	78.117811	11.753591	0.83	5.15	160	200	160
49	Omalur	Karuppur	78.082183	11.720413	1.26	8.3	130	140	130
50	Omalur	Kattagoundampatti	78.070234	11.717476	1.42	40.32	40.32	180	Nil
51	Omalur	Keeraipappambadi	78.0474478	11.689202	1.44	26.74	200	300	200
52	Omalur	Komaliyur	78.029539	11.773487	1.07	6.33	240	260	240
53	Omalur	Kottanur	78.09732	11.621545	1.46	13.16	150	300	150
54	Omalur	Kullamanickanpatti	78.068799	11.7443	1.53	22.93	260	300	260
55	Omalur	Kuppanayakkanur	78.027614	11.859483	1.47	7.72	7.72	110	Nil
56	Omalur	M. Chettipatti	78.010259	11.734732	4.12	23.12	150	220	150
57	Omalur	Malakkanur	78.048826	11.698373	1.1	12.9	90	220	90
58	Omalur	Mamangam	78.113248	11.694334	1.12	17.62	130	150	130
59	Omalur	Mankuppai	78.090477	11.698453	1.7	10.2	70	180	70
60	Omalur	Mattukarannur	78.075615	11.744738	1.3	26.3	90	220	90
61	Omalur	Muduthurai	78.051995	11.651553	3.19	11.24	150	240	150
62	Omalur	Mungilpadi	78.115641	11.738652	1.51	29.01	180	220	180
63	Omalur	Muthunaickampatti	78.016501	11.71091	1.91	20.21	160	200	160
64	Omalur	Pachanampatti	78.021621	11.747163	2.17	14.67	14.67	260	Nil
65	Omalur	Pamparapatti	78.024437	11.776179	2.13	45.93	100	110	100
66	Omalur	Perumampatti	78.087977	11.633817	1.66	18.36	300	330	300
67	Omalur	Primary School Peramachur SS1	78.048985	11.725286	0.9	11.7	160	180	60;80;160
68	Omalur	Primary School Peramachur SS2	78.048901	11.72524	0.6	13.8	160	190	70;160
69	Omalur	Puliyampatti	78.062271	11.729604	1.31	30.91	140	300	140
70	Omalur	Rajapalayam	78.051612	11.54765	1.35	13.15	110	280	110
71	Omalur	Redipatti	77.995047	11.744895	1.11	6.46	180	280	70;180

S.No	Block	VES Location	Longitude	Latitude	Top Soil depth in m	Weathered Zone depth in m	Fractured Zone depth in m	Total Interpreted Depth in m	Fractures encountered Depth in m
72	Omalur	Sakkarachettipatti	78.091488	11.78473	1.15	8.62	8.62	300	Nil
73	Omalur	Salem Airport	78.065382	11.784792	1.42	15.22	160	300	160
74	Omalur	Sangithapatti	78.082621	11.732306	1.42	11.42	150	200	150
75	Omalur	Senaipalayam	78.042972	11.566698	1.63	13.63	240	300	240
76	Omalur	Tattayyampatti	78.049172	11.780532	1.41	17.11	260	300	140&260
77	Omalur	Thathayangarpatti	78.122791	11.76859	0.96	15.46	160	180	160
78	Omalur	Thenkkampatti	78.114166	11.745845	1.72	12.82	12.82	160	Nil
79	Omalur	Thunbathulipatti	78.069512	11.631835	1.88	33.78	180	260	180
80	Omalur	Vattakadu	78.11522	11.770653	0.8	15.1	130	330	130
81	Omalur	Vellalapatti	78.101642	11.751434	1.12	19.02	130	150	130
82	Veerapandi	Agraharapulaveri	78.100764	11.597361	1.8	16.1	16.1	140	Nil
83	Veerapandi	Agraharapulaveri	78.116781	11.593693	1.53	9.9	9.9	300	Nil
84	Veerapandi	Arikkavundanpatti	78.030828	11.640448	0.9	9.47	180	220	180
85	Veerapandi	Ariyanur	78.083969	11.600423	1.38	34.52	140	150	140
86	Veerapandi	Attavanaipulaveri	78.12259	11.595449	1.27	25.87	25.87	260	Nil
87	Veerapandi	Attayampatti	78.049135	11.525889	0.6	1.5	140	200	140
88	Veerapandi	Attayampatti SS1	78.038752	11.535833	0.3	3.8	80	120	80
89	Veerapandi	Attayampatti SS2	78.038649	11.535783	1.4	8	8	100	Nil
90	Veerapandi	Bairojipalayam	78.07475	11.528912	0.4	17.1	140	200	140
91	Veerapandi	Chennagiri SS1	78.06214	11.536345	1.2	17.4	90	100	90
92	Veerapandi	Chennagiri SS2	78.0621	11.539049	0.5	13.8	150	160	100& 150
93	Veerapandi	Chinna Seeragapadi SS1	78.056902	11.584525	0.7	22.3	140	240	140
94	Veerapandi	Chinna Seeragapadi SS3	78.057174	11.583831	0.16	8.5	8.5	50	Nil
95	Veerapandi	Chinna Seeragapdi SS2	78.05679	11.584737	0.3	28.1	28.1	120	Nil

S.No	Block	VES Location	Longitude	Latitude	Top Soil depth in m	Weathered Zone depth in m	Fractured Zone depth in m	Total Interpreted Depth in m	Fractures encountered Depth in m
96	Veerapandi	Chinnaseeragapadi	78.061868	11.580017	2.1	10.9	80	220	80
97	Veerapandi	Ettimanickapatti SS1	78.043259	11.55956	1.52	6.85	6.85	50	Nil
98	Veerapandi	Ettimanickapatti SS2	78.043236	11.559571	0.5	19.7	19.7	72	Nil
99	Veerapandi	Kadathur	78.053719	11.572544	2.4	14.8	100	130	100
100	Veerapandi	Kadatoor	78.053687	11.571444	2.4	14.8	130	150	130
101	Veerapandi	Kalparaipatti	78.038337	11.579798	0.6	3.9	140	150	60 & 140
102	Veerapandi	Kandarakulamanickyam	78.032252	11.546931	1	11.5	160	200	160
103	Veerapandi	Kolinjipatti	78.117914	11.604413	1.6	9.4	90	160	90
104	Veerapandi	Luguvampatti	78.02713	11.627287	1.67	17.87	140	150	20 & 140
105	Veerapandi	Manakkadu	78.041472	11.600167	2	6.4	6.4	220	Nil
106	Veerapandi	Murungapatti	78.049647	11.639577	1.61	13.71	260	300	260
107	Veerapandi	Nallampatti	78.063895	11.644995	1.47	18.07	140	220	140
108	Veerapandi	Nayakkanpatti	78.04198	11.652579	1	1	200	220	90 & 200
109	Veerapandi	Nayyakanpatti	78.055022	11.642552	1.39	18.49	18.49	240	Nil
110	Veerapandi	Palampatti	78.090359	11.55227	1.53	39.93	39.93	130	Nil
111	Veerapandi	Pamankardu	78.113997	11.709447	0.855	23.915	23.915	130	Nil
112	Veerapandi	Pellampatti	78.055746	11.633651	0.805	22.705	22.705	170	Nil
113	Veerapandi	Pettampatti	78.065205	11.557274	0.3	3.4	90	160	90
114	Veerapandi	Pichampalayam SS1	78.071828	11.544237	0.5	4.5	4.5	100	Nil
115	Veerapandi	Pichampalayam SS2	78.071649	11.544213	0.9	14.8	80	90	80
116	Veerapandi	Pulaveri	78.102522	11.589253	1.93	5.92	90	110	50& 90
117	Veerapandi	Pumandapatti	78.056218	11.653157	1.41	14.71	160	200	160
118	Veerapandi	Puthur	78.103151	11.615388	1.46	33.86	300	300	300
119	Veerapandi	Ramapuram SS1	78.011121	11.59127	1.6	31.2	80	140	80

S.No	Block	VES Location	Longitude	Latitude	Top Soil depth in m	Weathered Zone depth in m	Fractured Zone depth in m	Total Interpreted Depth in m	Fractures encountered Depth in m
120	Veerapandi	Ramapuram SS2	78.010917	11.591357	1.4	20.7	200	140	200
121	Veerapandi	Ramapuram SS3	78.010803	11.591392	0.5	26.5	220	220	220
122	Veerapandi	Salem steel plant SS1	78.05535	11.665093	0.6	32.4	200	350	140&200
123	Veerapandi	Salem steel plant SS2	78.055451	11.665319	0.6	22.3	220	330	160&220
124	Veerapandi	Salem steel plant SS3	78.055606	11.665461	0.5	17.5	150	300	150
125	Veerapandi	Savampalayam	78.048929	11.585447	0.93	0.93	0.93	160	Nil
126	Veerapandi	Sembayavalavu	78.028103	11.57818	0.9	10.4	160	200	120 & 160
127	Veerapandi	Vembadithalam	78.027317	11.565936	0.87	6.53	6.53	140	Nil

S.No	Block	TEM Location	Longitude	Latitude	Total interpreted depth in m	Weathered zone in m	Fractures encountered @ depth in m
1	Kadayampatty	Bommyapatty	78.1221	11.8990	200	12	114, 150 & 183
2	Kadayampatty	Bommyapatty	78.1215	11.8965	100	12	53, 83 & 102
3	Kadayampatty	Chinna Tirupathy	78.0286	11.8325	200	6	98, 166 & 191
4	Kadayampatty	Chinna Tirupathy	78.0286	11.8325	200	6	106 & 157
5	Kadayampatty	Chinna Tirupathy	78.0289	11.8343	200	6	124, 160 & 191
6	Kadayampatty	Kadayampatty	78.1134	11.8807	200	13	102, 161 & 191
7	Kadayampatty	Kadayampatty	78.1134	11.8807	200	13	95, 151 & 194
8	Kadayampatty	Kadayampatty	78.1134	11.8807	200	13	112 & 158
9	Kadayampatty	Kanavaipudhur	78.1773	11.9293	200	10	126, 164 & 200
10	Kadayampatty	Kanavaipudhur	78.1805	11.9281	200	10	110, 158 & 206
11	Kadayampatty	Kanavaipudhur 1	78.1801	11.9270	200	10	101, 176 & 200
12	Kadayampatty	Maramangalathupatty	78.0598	11.6738	100	6	54, 72 & 96

S.No	Block	TEM Location	Longitude	Latitude	Total interpreted depth in m	Weathered zone in m	Fractures encountered @ depth in m
13	Kadayampatty	Pannapatty	78.0772	11.8275	200	12	102, 147 & 200
14	Kadayampatty	Pannapatty	78.0772	11.8275	200	12	126, 175 & 200
15	Kadayampatty	Pannapatty	78.0730	11.8284	200	12	112, 156 & 200
16	Kadayampatty	Periya Kadampatti	77.9925	11.7166	100	8	57, 77 & 92
17	Kadayampatty	Poosaripatty	78.0565	11.8426	200	2	116, 159 & 195
18	Kadayampatty	Poosaripatty	78.0650	11.8328	200	2	126, 167 & 200
19	Kadayampatty	Poosaripatty	78.0657	11.8300	200	2	96, 149 & 196
20	Omalur	Mattukaranur	78.0823	11.7401	200	15	99, 157 & 200
21	Omalur	Mattukaranur	78.0707	11.7351	200	15	123, 157 & 198
22	Omalur	Mattukaranur	78.0707	11.7351	200	15	57, 82 & 100
23	Omalur	Nadupatti	78.0935	11.8830	100	8	61, 80 & 102
24	Omalur	Paraikadu	77.9748	11.7681	200	10	96, 161 & 187
25	Omalur	Paraikadu	77.9730	11.7663	200	10	124, 162 & 200
26	Omalur	Paraikadu	77.9730	11.9730	200	10	116, 149 & 193
27	Omalur	Thengampatti	78.1142	11.7457	200	10	100, 163 & 200
28	Omalur	Thindamagalam	77.9944	11.7749	200	5	114, 158 & 200
29	Omalur	Thindamagalam	78.0069	11.7453	100	5	56, 81 & 100
30	Panamarthupatti	Erattaipuli pudur	78.3190	11.5839	100	6	54, 87 & 108
31	Panamarthupatti	Erattaipuli pudur 1	78.2706	11.5913	200	6	122, 156 & 207
32	Panamarthupatti	Sandiyur Adayampatti	78.1471	11.5677	200	6	113, 160 & 206
33	Panamarthupatti	Sandiyur Adayampatti 1	78.1474	11.5688	100	6	48, 76 & 98
34	Panamarthupatti	Uthukuzhilkadu	78.1361	11.6158	200	8	94, 144 & 185
35	Panamarthupatti	Uthukuzhilkadu	78.1372	11.6183	200	8	113, 148, 187 & 205
36	Panamarthupatti	Uthukuzhilkadu 1	78.1357	11.6160	200	8	105, 160 & 198

S.No	Block	TEM Location	Longitude	Latitude	Total interpreted depth in m	Weathered zone in m	Fractures encountered @ depth in m
37	Panamarthupatti	Uthukuzhilkadu 2	78.1378	11.6168	200	8	91, 148 & 191
38	Veerapandy	Akkarapalayam	78.0960	11.5932	500	9	150,228,336 & 432
39	Veerapandy	Chennagiri	78.0622	11.5352	500	12	126,240,300 & 378
40	Veerapandy	Chennagiri	78.0618	11.5499	500	12	120,210,270 & 408
41	Veerapandy	Chinnaseeragapadi	78.0507	11.5802	500	12	138,222,288 & 408
42	Veerapandy	Chinnaseeragapadi	78.0557	11.5839	500	12	120,222,306 & 444
43	Veerapandy	Elampilla Saanthai	78.0045	11.6030	200	10	102, 160 & 189
44	Veerapandy	Elampilla Saanthai 1	78.0047	11.6020	200	10	115, 157 & 206
45	Veerapandy	Elampillai	78.0194	11.6071	200	10	97, 172 & 200
46	Veerapandy	Elampillai	78.0186	11.6064	100	10	58, 91 & 97
47	Veerapandy	Elampillai School	78.0013	11.6035	200	10	111 & 169
48	Veerapandy	Elempairajj	78.0786	11.5694	100	6	47, 72 & 99
49	Veerapandy	Ettimanickampatty	78.0486	11.5539	500	6	120,192,276 &378
50	Veerapandy	Ettimanickampatty	78.0486	11.5539	500	9	138,222,336 &372
51	Veerapandy	Ettimanickampatty	78.0390	11.5741	500	6	132,234,300 & 456
52	Veerapandy	Ettimanickampatty	78.0455	11.5581	100	6	61, 76 & 105
53	Veerapandy	Ettimanickampatty	78.0455	11.5581	200	6	99, 15 & 194
54	Veerapandy	Iyampalyam	78.0297	11.5737	100	6	47, 81 & 96
55	Veerapandy	Iyampalyam	78.0261	11.5746	100	6	55, 73 & 94
56	Veerapandy	Iyampalyam 3	78.0272	11.5663	100	6	49, 74 & 98
57	Veerapandy	Iyampalyam 4	78.0290	11.5702	100	6	60, 76 & 95
58	Veerapandy	Iyampalyam 5	78.0336	11.5759	100	6	54, 77 & 77
59	Veerapandy	Kadathur	78.0611	11.5850	500	9	144,228,348 & 468
60	Veerapandy	Kadathur	78.0533	11.5713	500	9	120,192,360 & 396

S.No	Block	TEM Location	Longitude	Latitude	Total interpreted depth in m	Weathered zone in m	Fractures encountered @ depth in m
61	Veerapandy	Kadathur	78.0518	11.5678	500	9	120,192,306 & 414
62	Veerapandy	Kandarakulamanickyam	78.0383	11.5325	500	6	126,180,342 & 426
63	Veerapandy	Kandarakulamanickyam	78.0383	11.5325	500	6	126,180,342 & 426
64	Veerapandy	Kompadipatti	78.0402	11.5695	100	6	54, 74 & 96
65	Veerapandy	Kompadipatti	78.0398	11.5803	100	6	54, 80 & 100
66	Veerapandy	Kompadipatti	78.0398	11.5803	100	6	63, 79 & 98
67	Veerapandy	Lakshminur	78.0761	11.5843	100	6	58, 86 & 100
68	Veerapandy	Perumampatty	78.0818	11.6347	100	6	58, 84 & 102
69	Veerapandy	Perumampatty	78.0821	11.6338	100	6	58, 82 & 102
70	Veerapandy	Pichampalayam	78.0717	11.5438	500	12	126,198,294 & 474
71	Veerapandy	Pulavari	78.1028	11.6106	200	10	110, 164 & 194
72	Veerapandy	Pulavari 1	78.1028	11.6106	200	10	121, 159 & 200
73	Veerapandy	Pulavari 2	78.1028	11.6106	200	10	97, 156 & 195
74	Veerapandy	Punjaikadu	78.1007	11.5882	500	9	150,228,294 & 402
75	Veerapandy	Punjaikadu	78.1007	11.5882	500	9	144,204,360 & 396
76	Veerapandy	Punjaikattuvalavu	78.0606	11.5639	200	8	113, 158 & 211
77	Veerapandy	Punjaikattuvalavu 1	78.0602	11.5637	200	8	108, 172 & 209
78	Veerapandy	Punjaikattuvalavu 2	78.0597	11.5582	200	8	130, 157 & 202
79	Veerapandy	Rakkipatti Arunthiyar Colony	78.0358	11.5691	200	6	121, 174 & 198
80	Veerapandy	Rakkipatti Arunthiyar Colony 1	78.0358	11.5691	100	6	49, 82 & 100
81	Veerapandy	Rakkipatti Arunthiyar Colony 2	78.0358	11.5691	200	6	123, 168 & 196
82	Veerapandy	Ramapuram	78.0112	11.5907	500	12	120,216,282 &402
83	Veerapandy	Senkodanpalayam	78.0261	11.5655	200	6	104, 167 & 211
84	Veerapandy	Senkodanpalayam 1	78.0318	11.5692	200	6	117, 173 & 216

S.No	Block	TEM Location	Longitude	Latitude	Total interpreted depth in m	Weathered zone in m	Fractures encountered @ depth in m
85	Veerapandy	Thottampatti	77.9798	11.8414	100	6	49, 82 & 98
86	Veerapandy	Veerapandy	78.0725	11.5730	100	6	62, 82 & 100
87	Veerapandy	Veerapandy	78.0721	11.5732	100	6	50, 82 & 100

Annexure-IV- Details of Exploratory Wells and Piezometers drilled during the Study

Sl.No	Block	Location	Well Type	Latitude	Longitude	Total depth in m	Fracture @depth in m	Casing depth in m	Yield in lps	Formation
1	Kadayampatty	Bommiyampatty	PZ	11.8964	78.1218	60	18, 40	12	1.48	Charnockite
2	Kadayampatty	Chinnatirupathy (Karuvalli)	EW	11.8334	78.0288	200	16, 23, 33 & 112	6.1	5.53	Biotite Gneiss
3	Kadayampatty	Dharapuram	PZ	11.8300	78.0672	60	22, 55	6	4.36	Charnockite
4	Kadayampatty	Kongupatty	PZ	11.8487	77.9959	100	75	6	0.4	Charnockite
5	Kadayampatty	Kongupatty	EW	11.8565	77.9907	184	182	8.87	18.9	Charnockite
6	Kadayampatty	Nadupatty	EW	11.8789	78.0877	200	31, 127	6	0.7	Charnockite
7	Kadayampatty	Nadupatty	PZ	11.8859	78.0946	60	12, 44	6	1.2	Charnockite
8	Kadayampatty	Pannapatty	EW	11.8282	78.0722	122	120	6.6	8.4	Biotite Gneiss
9	Kadayampatty	Poosaripatty	EW	11.8431	78.0571	200	182	6.1	0.07	Charnockite
10	Kadayampatty	Semmandapatty	EW	11.7771	78.0246	101	23, 96	14.3	0.2	Biotite Gneiss
11	Kadayampatty	Thinnapatty	PZ	11.8165	78.1007	100		6		Charnockite
12	Omalur	Kamandapatty	EW	11.7498	78.0366	200	65	12.16	0.07	Biotite Gneiss
13	Omalur	Matukaranur	PZ	11.7500	78.0079	60	24.8	9.5	0.07	Biotite Gneiss
14	Omalur	Pagalpatty	PZ	11.6979	78.0564	100		6		Biotite Gneiss
15	Omalur	Panangattur	PZ	11.7500	78.0079	60	18	6	2.9	Biotite Gneiss
16	Omalur	Periya Kadampatty	PZ	11.7168	77.9930	60	15 , 44	9	0.44	Biotite Gneiss
17	Omalur	Thindamangalam	EW	11.7430	78.0082	200	18, 54	11	3.34	Biotite Gneiss
18	Omalur	Tholasampatty	EW	11.7643	77.9780	200	22, 130	12.05	0.7	Biotite Gneiss
19	Omalur	Vellalapatty	EW	11.7459	78.0994	201	18, 173	14.5	0.6	Biotite Gneiss
20	Panamarathupatty	Uthukulikadu	EW	11.6155	78.1363	200		9		Charnockite
21	Veerapandi	Akkarapalayam	EW	11.5859	78.0955	263	152	18	0.07	Biotite Gneiss
22	Veerapandi	Attayampatty EW	EW	11.5358	78.0388	127.1	55-56, 127-127.1	6	14.1	Biotite Gneiss
23	Veerapandi	Attayampatty OW	EW	11.5358	78.0388	164.7	55-56	6	6.8	Biotite Gneiss

Sl.No	Block	Location	Well Type	Latitude	Longitude	Total depth in m	Fracture @depth in m	Casing depth in m	Yield in lps	Formation
24	Veerapandi	Chennagiri EW	EW	11.5364	78.0621	155.6	14-15, 155-155.5	12	25	Biotite Granite Gneiss
25	Veerapandi	Chennagiri OW	EW	11.5364	78.0621	158.6	13-14, 145-146	12	12	Biotite Granite Gneiss
26	Veerapandi	Chinna Seeragapady	EW	11.5908	78.0729	305	254	3		Biotite Gneiss
27	Veerapandi	Ettimanicampatty	EW	11.5583	78.0433	286.7	19-20, 134-135	9	1.8	Biotite Granite Gneiss
28	Veerapandi	Kadathur	EW	11.5747	78.0550	286.7	13-14	6	0.5	Biotite Gneiss
29	Veerapandi	Pichampalayam	EW	11.5439	78.0716	215	20, 63, 92, 180 & 210	10	5.53	Biotite Gneiss
30	Veerapandi	Pulavari	EW	11.7500	78.1064	182	18, 54, 180	12.5	12.02	Biotite Granite Gneiss
31	Veerapandi	Rakipatty	EW	11.5593	78.0432	286.7		6		Biotite Gneiss
32	Veerapandi	Rakki patty	EW	11.5640	78.0428	200	17.5	6.5	0.7	Biotite Gneiss
33	Veerapandi	Ramapuram	EW	11.5914	78.0110	201	26, 59 & 78	9	4.36	Biotite Gneiss
34	Veerapandi	Sengodanpalayam	EW	11.5631	78.0334	200		6.05	0.07	Biotite Gneiss

Annexure-V- Farmers Feed back

S.No	Block	Panchayat	Location	Latitude	Longitude	MP magl	Casing Depth in m	Reported Fractured @ Depth in m	Reported Yield in lps	Total Depth in m	Well Type	Pump Type	Pump Capacity In Hp	Soil	Over Burden Thickness in m
1	Veerapandi	Chinnagiri	Errusonampatty	11.536932	78.061639	0.6	12	35,120	12	180	BW	Submersible	5	Reddish Yellow	1
2	Veerapandi	Chinnagiri	Moorthykaddu	11.539113	78.067113	0.5	10	40,125	10	200	BW	Submersible	5	Reddish Yellow	1
3	Veerapandi	S.Papparapatti	Perumbaraikadu	11.532101	78.062805	0.5	8	30,100	3	150	BW	Submersible	3	Reddish Yellow	1
4	Veerapandi	Marulayampalayam	Marulayampalayam	11.5239	78.046097	0.6	20	30	2	180	BW	Submersible	5	Reddish Yellow	1
5	Veerapandi	Rajapalayam	Arimanagar	11.536877	78.055337	0.5	12	60	3	200	BW	Submersible	5	Reddish Yellow	1
6	Veerapandi	Rajapalayam	Ar Colony	11.552942	78.048174	0.8	12	50	2	200	BW	Submersible	5	Reddish Yellow	1
7	Veerapandi	Ettimanikampatty	Ettimanikampatty	11.558051	78.04428	0.5	11	30	2	150	BW	Submersible	5	Reddish Yellow	1
8	Veerapandi	Ettimanikampatty	Andipatty	11.554774	78.040786	0.6	10	30,100	1	200	BW	Submersible	1	Reddish Yellow	1
9	Veerapandi	Ettimanikampatty	Sengodapalayam	11.56081	78.032622	0.5	8	25,105	2	220	BW	Submersible	5	Reddish Yellow	0.50
10	Veerapandi	Rakipatty	R Puthupalayam	11.560582	78.034277	0.5	10	40	1	210	BW	Submersible	2	Reddish Yellow	1
11	Veerapandi	Rakipatty	Chettiyar St, Rakipatty	11.564662	78.042539	0.5	5	35	0.5	200	BW	Submersible	1	Reddish Yellow	1
12	Veerapandi	Kadathur	Agarharam	11.570653	78.051295	0.8	7	25	1	200	BW	Air-Compressor	1	Reddish Yellow	0.50
13	Veerapandi	Kadathur	P.K Valavu	11.565577	78.057408	0.5	7	90	1.50	180	BW	Air-Compressor	2	Reddish Yellow	1
14	Veerapandi	Seerakapadi	Annanagar	11.584895	78.056441	0.6	6	40	2	200	BW	Submersible	2	Reddish Yellow	1
15	Veerapandi	Seerakapadi	Periyaseerakapadi	11.578393	78.045181	0.5	6	30	1.5	200	BW	Submersible	2	Reddish Yellow	1
16	Veerapandi	Seerakapadi	Marriyamman Koil	11.576217	78.055123	0.8	7	40	1	210	BW	Submersible	2	Reddish Yellow	1
17	Veerapandi	Bairoji	Nalrayanpatty	11.570551	78.0608	0.5	6	20,130	1.5	200	BW	Submersible	2	Reddish Yellow	1
18	Veerapandi	Bairoji	Pitcherpalayam	11.54541	78.07042	0.5	12	28,110	3	200	BW	Submersible	2	Reddish Yellow	1
19	Veerapandi	Akarampalayam	S Palampatty	11.569122	78.071833	0.5	12	60	2	200	BW	Submersible	1	Reddish Yellow	1

S.No	Block	Panchayat	Location	Latitude	Longitude	MP magl	Casing Depth in m	Reported Fractured @ Depth in m	Reported Yield in lps	Total Depth in m	Well Type	Pump Type	Pump Capacity In Hp	Soil	Over Burden Thickness in m
20	Veerapandi	Akarampalayam	Lakshmanur	11.574782	78.086952	0.6	5	30	1.5	210	BW	Submersible	2	Reddish Yellow	0.50
21	Veerapandi	Akarampalayam	Lakshmanur Near Mariyaman Koil	11.579659	78.085803	0.5	5	35	2	180	BW	Submersible	2	Reddish Yellow	1
22	Veerapandi	Pullavari	Sithaneri	11.591916	78.09731	0.6	5	40	2	200	BW	Submersible	2	Reddish Yellow	1
23	Veerapandi	Pullavari	Ooradimuniyappan Kadu	11.603501	78.10232	0.5	7	20	2.5	220	BW	Submersible	2	Reddish Yellow	1
24	Veerapandi	Uthamasolapuram	Kanakupillaikadu	11.613307	78.098195	0.6	12	30	2	180	BW	Submersible	5	Reddish Yellow	1
25	Veerapandi	Uthamasolapuram	Uthamasolapuram	11.61107	78.10672	0.5	8	70	2	200	BW	Submersible	1	Reddish Yellow	1
26	Veerapandi	Veerapandi	Arriyanoor	11.591317	78.07654	0.8	8	50	2	210	BW	Submersible	2	Reddish Yellow	1
27	Veerapandi	Veerapandi	Mettukadu	11.576172	78.070847	0.6	8	60	1	200	BW	Air-Compressor	2	Reddish Yellow	1
28	Veerapandi	Puthur	Chinnaputhur	11.623673	78.106718	0.5	7	50	2	180	BW	Submersible	2	Reddish Yellow	1
29	Veerapandi	Puthur	Perriyaputhur	11.632868	78.106618	0.5	15	80	3	200	BW	Submersible	5	Reddish Yellow	1
30	Veerapandi	Perumampatty	Kanavakadu	11.635146	78.083073	0.7	8	40	3	220	BW	Submersible	2	Reddish Yellow	0.50
31	Veerapandi	Perumampatty	Chinnagur	11.646797	78.089591	0.5	2	200	1.5	200	BW	Air-Compressor	2	Reddish Yellow	0.50
32	Veerapandi	Mooduthurai	Nallampatty	11.657795	78.056317	0.8	15	70	2	150	BW	Submersible	2	Reddish Yellow	1
33	Veerapandi	Mooduthurai	Naikanpatty	11.640295	78.050513	0.5	20	180	2	200	BW	Submersible	2	Reddish Yellow	1
34	Veerapandi	Murungapatty	Melkadu	11.630589	78.038669	0.5	7	40	3	190	BW	Submersible	5	Reddish Yellow	0.50
35	Veerapandi	Murungapatty	Laguvampatty	11.631026	78.033215	0.5	8	55	3	200	BW	Submersible	5	Reddish Yellow	1
36	Veerapandi	Arigoundampatty	Ayyannavalavu	11.635566	78.023388	0.6	7	25	3	200	BW	Submersible	5	Reddish Yellow	1
37	Veerapandi	Arigoundampatty	Chittanur	11.649304	78.008083	0.5	5	180	2	200	BW	Submersible	2	Reddish Yellow	1
38	Veerapandi	Vempadithalam	Vempadithalam Near Mariamman Koil	11.568534	78.012544	0.6	8	150	2	200	BW	Submersible	2	Reddish Yellow	1
39	Veerapandi	Vempadithalam	Thiruvallypatty	11.561364	78.012731	0.5	8	150	2	200	BW	Submersible	2	Reddish Yellow	1

S.No	Block	Panchayat	Location	Latitude	Longitude	MP magl	Casing Depth in m	Reported Fractured @ Depth in m	Reported Yield in lps	Total Depth in m	Well Type	Pump Type	Pump Capacity In Hp	Soil	Over Burden Thickness in m
40	Veerapandi	Anaikuttapatty	Anaikuttupatty	11.572923	78.016042	0.5	25	120	4	200	BW	Submersible	5	Reddish Yellow	1
41	Veerapandi	Kalparapatty	Kothukarankadu	11.581221	78.023115	0.6	10	70	2	120	BW	Submersible	2	Reddish Yellow	1
42	Veerapandi	Senaiplayam	Senaipalayam	11.566772	78.026624	0.5	15	150	1.5	200	BW	Submersible	2	Reddish Yellow	1
43	Veerapandi	Senaiplayam	Servampalayam	11.572917	78.03187	0.7	7	100	2	220	BW	Submersible	2	Reddish Yellow	1
44	Veerapandi	Kalparapatty	Keelkatturvalavu	11.592054	78.03011	0.5	7	180	1	200	BW	Submersible	2	Reddish Yellow	1
45	Veerapandi	Kalparapatty	Bondiliyankuttai	11.60312	78.038455	0.5	8	150	1.5	200	BW	Submersible	2	Reddish Yellow	1
46	Veerapandi	Annaikuttapatty	Kombakaranvalavu	11.576993	78.020042	0.5	10	70	1	210	BW	Air-Compressor	1	Reddish Yellow	1
47	Veerapandi	Perrumakoundampatty	Kaliammankoil	11.596628	78.00565	0.5	7	70	1.5	200	BW	Submersible	1	Reddish Yellow	1
48	Veerapandi	Perrumakoundampatty	Mankadu	11.601976	78.024417	0.5	10	60	1	210	BW	Air-Compressor	1	Reddish Yellow	1
49	Veerapandi	Maramangalathupatty	Chinapattankadu	11.667239	78.038778	0.7	10	70	2	250	BW	Submersible	2	Reddish Yellow	1
50	Veerapandi	Maramangalathupatty	Rasi Nagar	11.671538	78.049083	0.8	7	40	2	250	BW	Submersible	2	Reddish Yellow	1
51	Veerapandi	Keerapappampady	Puthuyerikarai	11.681614	78.048076	0.5	8	70	1	250	BW	Air-Compressor	1	Reddish Yellow	1
52	Veerapandi	Keerapappampady	Kullapachiyur	11.68856	78.043772	0.6	7	120	2	200	BW	Air-Compressor	2	Reddish Yellow	1
53	Omalur	Pagalpatty	Boominayakanpatty	11.684474	78.066362	0.8	15	120	2	200	BW	Submersible	1	Yellowish Red	1
54	Omalur	Pagalpatty	Arasanmarathukadu	11.681447	78.06287	0.6	12	120	2	200	BW	Submersible	1	Yellowish Red	1
55	Omalur	Pagalpatty	Ramanur	11.709333	78.062604	0.6	8	120	2	200	BW	Submersible	2	Yellowish Red	1
56	Omalur	P.Nallagoundanpatty	Govindankattuvalavu	11.698502	78.077006	0.8	10	71	2	200	BW	Submersible	2	Yellowish Red	1
57	Omalur	P.Nallagoundanpatty	Chellapillaikuttai	11.70562	78078386	0.6	10	80	2	200	BW	Submersible	2	Yellowish Red	1
58	Omalur	Chellapillaikuttai	Govindasamynagar	11.71245	78.059626	0.6	10	100	2	200	BW	Submersible	2	Yellowish Red	1
59	Omalur	Chellapillaikuttai	Bavanur	11.725119	78.061971	0.5	8	90	1	200	BW	Submersible	1	Yellowish Red	1

S.No	Block	Panchayat	Location	Latitude	Longitude	MP magl	Casing Depth in m	Reported Fractured @ Depth in m	Reported Yield in lps	Total Depth in m	Well Type	Pump Type	Pump Capacity In Hp	Soil	Over Burden Thickness in m
60	Omalur	M.Chettipatty	M.Chettipatty	11.729819	78.005595	0.7	12	90	2	150	BW	Submersible	2	Yellowish Red	1
61	Omalur	M.Chettipatty	Therukadu	11.732858	78.006447	0.6	15	40	1	100	BW	Air-Compressor	1	Yellowish Red	1
62	Omalur	Sikkampatty	Sikkampatty	11708363	77.986501	0.5	10	80	2	200	BW	Submersible	2	Yellowish Red	1
63	Omalur	Sikkampatty	Paruthikaranur	11.717913	77.980384	0.6	10	80	1	200	BW	Submersible	2	Yellowish Red	1
64	Omalur	Sikkampatty	Periyakadampatty	11.715839	77.988471	0.5	12	30	1	150	BW	Submersible	1	Yellowish Red	1
65	Omalur	Semmankudal	Kandamichanur	11.693614	78.013824	0.6	8	70	2	200	BW	Submersible	2	Yellowish Red	1
66	Omalur	Semmankudal	Katchivalayanur	11.691588	78.017878	0.6	9	60	2	200	BW	Submersible	2	Yellowish Red	1
67	Omalur	Muthunayakanpatty	Indira Nagar	11.713911	78.027665	0.6	10	60	1	150	BW	Submersible	2	Yellowish Red	1
68	Omalur	Muthunayakanpatty	Manjulayur	11.710129	78.021334	0.5	10	80	1	200	BW	Submersible	2	Yellowish Red	1
69	Omalur	Patchinampatty	Muthunayakanpatty	11.715119	78.033345	0.7	8	110	1	150	BW	Air-Compressor	1	Yellowish Red	1
70	Omalur	Muthunayakanpatty	Puthurkadanpatty	11.709289	78.001709	0.5	8	90	2	200	BW	Submersible	2	Yellowish Red	1
71	Omalur	Muthunayakanpatty	Olaipatty	11.698627	78.038434	0.5	8	90	1	200	BW	Submersible	2	Yellowish Red	1
72	Omalur	Puliyampatty	Kuditheru	1173238	78.057825	0.6	10	80	2	150	BW	Submersible	2	Yellowish Red	1
73	Omalur	Puliyampatty	Lakshminagar	11.729175	78.063011	0.7	10	70	2	200	BW	Submersible	2	Yellowish Red	1
74	Omalur	Kottagoundanpatty	Vasantham Nagar	11.716038	78.077081	0.5	8	45	1	200	BW	Air-Compressor	2	Yellowish Red	1
75	Omalur	Vellakalpatty	Srinivasanagar	11.716543	78.122077	0.5	6	40	1	100	BW	Submersible	1	Yellowish Red	1
76	Omalur	Vellakalpatty	Manjulampalam	11.709119	78.104061	0.6	10	80	2	150	BW	Submersible	2	Yellowish Red	1
77	Omalur	Saminayakanpatty	Saminayakanpatty	11.701778	78.084058	0.5	8	90	1	200	BW	Submersible	2	Yellowish Red	1
78	Omalur	Saminayakanpatty	Panangadu	11.705532	78.089103	0.5	15	60	3	250	BW	Submersible	5	Yellowish Red	1
79	Omalur	Manguppai	Adikarai	11.694045	78.87324	0.5	10	110	2	300	BW	Submersible	2	Yellowish Red	1

S.No	Block	Panchayat	Location	Latitude	Longitude	MP magl	Casing Depth in m	Reported Fractured @ Depth in m	Reported Yield in lps	Total Depth in m	Well Type	Pump Type	Pump Capacity In Hp	Soil	Over Burden Thickness in m
80	Omalur	Manguppai	Padayulchatram	11.686972	78.077637	0.5	8	90	1	200	BW	Submersible	2	Yellowish Red	1
81	Omalur	Kottamettupatty	Yerikadu	11.743581	78.057185	0.5	10	140	3	300	BW	Submersible	5	Yellowish Red	1
82	Omalur	Kottamettupatty	Milagaikarankadu	11.739717	78.065327	0.6	8	90	2	200	BW	Submersible	2	Yellowish Red	1
83	Omalur	Ettikuttapatty	Sekkarapatty	11.746401	78.066224	0.5	15	100	2	150	BW	Submersible	2	Yellowish Red	1
84	Omalur	Ettikuttapatty	Mattukaranur	11.74425	78.0773	0.5	14	100	1	150	BW	Submersible	2	Yellowish Red	1
85	Omalur	Naranampalayam	Mayillampalayam	11.755858	78.086062	0.6	10	90	2	200	BW	Submersible	2	Yellowish Red	1
86	Omalur	Naranampalayam	Adcolony	11.74348	78.084792	0.5	10	100	2	200	BW	Submersible	2	Yellowish Red	1
87	Omalur	Kottaimariyamankoil	Vellagoundanur	11.736681	78.029042	0.5	12	60	2	250	BW	Submersible	2	Yellowish Red	1
88	Omalur	Kottaimariyamankoil	Kotakadu	11.725375	78.036363	0.5	10	75	1	200	BW	Submersible	1	Yellowish Red	1
89	Omalur	Pachanampatty	Pachanampatty	11.745982	78.027487	0.5	7	60	2	200	BW	Submersible	2	Yellowish Red	1
90	Omalur	Pachanampatty	Thimirikottai	11.754775	78.029995	0.5	8	90	2	200	BW	Submersible	2	Yellowish Red	1
91	Omalur	Pachanampatty	Attukaranur	11.728385	78.02299	0.5	10	110	1	200	BW	Submersible	2	Yellowish Red	1
92	Omalur	U.Maramanagalam	Panjukalipatty	11.768614	78.012654	0.5	8	100	2	200	BW	Air-Compressor	1	Yellowish Red	1
93	Omalur	U.Maramanagalam	Karrupanampatty	11.758991	78.021435	0.5	8	100	1	200	BW	Submersible	2	Yellowish Red	1
94	Omalur	Thindamangalam	Vepamarathur	11.752836	78.011011	0.5	7	190	2	250	BW	Submersible	2	Yellowish Red	1
95	Omalur	Periyeripatty	Palikadu	11.726307	77.980437	0.5	10	100	2	200	BW	Submersible	1	Yellowish Red	1
96	Omalur	Periyeripatty	Thanapoosari Valavu	11.741488	77.981718	0.6	7	60	1	200	BW	Air-Compressor	1	Yellowish Red	1
97	Omalur	Tholasampatty	Ramakrishnanur	11.761059	77.971733	0.5	14	120	1	200	BW	Submersible	2	Yellowish Red	1
98	Omalur	Tholasampatty	T. Reddipatty	11.745378	77.992042	0.5	10	60	1	150	BW	Air-Compressor	1	Yellowish Red	1
99	Omalur	Ballpakkai	Keelkamandampatty	11.754594	78.037175	0.5	10	70	1	150	BW	Submersible	2	Yellowish Red	1
100	Omalur	Ballpakkai	Dasankatuvalavu	11.777266	78.039266	0.5	10	70	1	150	BW	Submersible	1	Yellowish Red	1

S.No	Block	Panchayat	Location	Latitude	Longitude	MP magl	Casing Depth in m	Reported Fractured @ Depth in m	Reported Yield in lps	Total Depth in m	Well Type	Pump Type	Pump Capacity In Hp	Soil	Over Burden Thickness in m
101	Omalur	Thathiyampatty	Koothankatuvalvu	11.785124	78.050923	0.5	8	90	2	200	BW	Air-Compressor	1	Yellowish Red	1
102	Omalur	Pottiyapuram	Karuthanur	11.781829	78.084527	0.5	7	60	1	200	BW	Submersible	5	Yellowish Red	1
103	Omalur	Pottiyapuram	Odartheru	11.789125	78.080562	0.6	8	90	2	250	BW	Submersible	2	Yellowish Red	1
104	Omalur	Sakarachettypatty	Venganur	11.777272	78.088772	0.5	10	110	2	250	BW	Submersible	5	Yellowish Red	1
105	Omalur	Sakarachettypatty	Nallukalpalam	11.773977	78.094888	0.6	8	90	2	250	BW	Submersible	5	Yellowish Red	1
106	Omalur	Kamalpuram	Kilathikadu	11.767388	78.089284	0.6	10	60	2	160	BW	Submersible	2	Yellowish Red	1
107	Omalur	Kamalpuram	Rc Chettipetty	11.761144	78.058786	0.7	15	90	3	250	BW	Submersible	5	Yellowish Red	1
108	Omalur	Sikkanampatty	Sikkanampatty	11.792377	78.059272	0.5	8	100	2	200	BW	Submersible	2	Yellowish Red	1
109	Omalur	Sikkanampatty	Chinnanadupatty	11.801126	78.06651	0.5	15	120	3	250	BW	Submersible	5	Yellowish Red	1
110	Omalur	Thumbipady	Sarakapillayur	11.820588	78.088936	0.6	12	70	2	200	BW	Submersible	2	Yellowish Red	1
111	Omalur	Thumbipady	Thinnapatty	11.813468	78.098558	0.5	10	90	2	150	BW	Submersible	2	Yellowish Red	1
112	Omalur	Thumbipady	Meastrivalavu	11.807141	78.078053	0.7	10	150	2	200	BW	Submersible	2	Yellowish Red	1
113	Omalur	Gollapatty	Thattanchavadi	11.730833	78.100892	0.6	12	50	2	250	BW	Submersible	3	Yellowish Red	1
114	Omalur	Gollapatty	Kalikaatupallam	11.737361	78.101471	0.5	10	70	1	200	BW	Submersible	2	Yellowish Red	1
115	Omalur	Thekampatty	Thekampatty	11.746539	78.116088	0.5	12	80	2	200	BW	Submersible	3	Yellowish Red	1
116	Omalur	Thekampatty	Sengaradu	11.746744	78.139515	0.5	10	70	1	250	BW	Submersible	2	Yellowish Red	1
117	Omalur	Moongilpadi	Marimuthunagar	11.738441	78.116016	0.5	14	90	2	200	BW	Submersible	2	Yellowish Red	1
118	Omalur	Moongilpadi	Athuvanamariammankoil	11.731815	78.111809	0.5	15	80	2	200	BW	Submersible	2	Yellowish Red	1
119	Omalur	Vellalapatty	Vellalapatty	11.749003	78.100188	0.6	10	60	1	250	BW	Submersible	2	Yellowish Red	1
120	Omalur	Vellalapatty	Karattukotai	11.744348	78.092273	0.6	15	100	2	200	BW	Submersible	2	Yellowish Red	1
121	Omalur	Sangeethapatty	Sangeethapatty	11.734606	78.083799	0.6	12	90	2	250	BW	Submersible	2	Yellowish Red	1

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122	Omalur	Sangeethapatty	Vengayanul	11.72925	78.081213	0.5	12	70	2	150	BW	Submersible	2	Yellowish Red	1
123	Kadayampatty	Semmandapatty	S Mottur	11.787481	78.016662	0.5	10	90	2	180	BW	Submersible	2	Reddish Yellow	1
124	Kadayampatty	Semmandapatty	Semmandapatty	11.786674	78.027529	0.5	11	90	2	220	BW	Submersible	2	Reddish Yellow	1
125	Kadayampatty	Dharapalam	Kalarkadu	11.805813	78.048941	0.6	10	60	2	200	BW	Submersible	2	Reddish Yellow	1
126	Kadayampatty	Dharapalam	Oorgoundankottai	11.83413	78.061347	0.5	15	160	2	220	BW	Submersible	2	Reddish Yellow	1
127	Kadayampatty	Karuvalli	Ramapuram	11.846127	78.029841	0.5	10	180	2	240	BW	Submersible	2	Reddish Yellow	1
128	Kadayampatty	Karuvalli	Santhanur	11.837406	78.037921	0.5	12	150	2	200	BW	Submersible	5	Reddish Yellow	1
129	Kadayampatty	Kanjanayakampatty	Kottaimedu	11.813491	78.049116	0.5	10	90	2	250	BW	Submersible	5	Reddish Yellow	1
130	Kadayampatty	Kanjanayakampatty	Kanjanayakampatty	11.828162	78.049109	0.5	12	110	1	200	BW	Submersible	2	Reddish Yellow	1
131	Kadayampatty	Mookanur	Mookanur	11.858013	78.046367	0.6	10	90	1	250	BW	Submersible	2	Reddish Yellow	1
132	Kadayampatty	Kongupatty	Kongupatty	11.858651	78.018501	0.6	10	120	2	210	BW	Submersible	3	Reddish Yellow	1
133	Kadayampatty	Kongupatty	Kothapillayur	11.864248	77.990516	0.6	10	90	2	250	BW	Submersible	2	Reddish Yellow	1
134	Kadayampatty	Goondakal	Jodukuli	11.900245	78.051021	0.5	15	90	1	230	BW	Submersible	2	Reddish Yellow	0.50
135	Kadayampatty	Goondakal	Pairankottai	11.903062	78.031603	0.6	10	70	2	220	BW	Submersible	2	Reddish Yellow	1
136	Kadayampatty	Poosaripatty	Kanniyakottai	11.848291	78.050654	0.5	8	60	2	250	BW	Submersible	2	Reddish Yellow	1
137	Kadayampatty	Poosaripatty	Dasasamuthram	11.856172	78.069342	0.5	7	80	1	200	BW	Submersible	2	Reddish Yellow	1
138	Kadayampatty	Poosaripatty	Kuruvanoor	11.850981	78.080166	0.6	8	120	2	200	BW	Submersible	2	Reddish Yellow	1
139	Kadayampatty	Pannapatty	Pannapatty	11.830793	78.068397	0.5	10	80	1	250	BW	Submersible	2	Reddish Yellow	1
140	Kadayampatty	Pannapatty	Marakondanputhur	11.837433	78.076283	0.6	12	70	2	200	BW	Submersible	2	Reddish Yellow	1
141	Kadayampatty	Ku.Kuttapatty	Mamarathur	11.815726	78.105392	0.5	12	105	1	250	BW	Submersible	2	Reddish Yellow	1

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142	Kadayampatty	Ku.Kuttapatty	Kottaimedu	11.826216	78.099224	0.5	10	110	1	250	BW	Air-Compressor	2	Reddish Yellow	1
143	Kadayampatty	Theevatipatty	Theevatipatty	11.866794	78.083522	0.5	12	80	2	200	BW	Submersible	2	Reddish Yellow	1
144	Kadayampatty	Theevatipatty	Kalarkadu	11.866906	78.07514	0.5	12	160	1	250	BW	Submersible	2	Reddish Yellow	1
145	Kadayampatty	Nadupatty	Nadupatty	11.880304	78.091177	0.7	10	100	2	250	BW	Submersible	2	Reddish Yellow	1
146	Kadayampatty	Nadupatty	Thalaivaipatty	11.890629	78.078069	0.5	10	80	3	300	BW	Submersible	2	Reddish Yellow	1
147	Kadayampatty	Umbillikampatty	Kattuvalvu	11.907766	78.111542	0.5	12	100	2	300	BW	Air-Compressor	2	Reddish Yellow	1
148	Kadayampatty	Bommiyampatty	Bommiyampatty	11.902351	78.1238	0.5	8	70	2	200	BW	Submersible	2	Reddish Yellow	1
149	Kadayampatty	Bommiyampatty	Palayakinnaru	11.89942	78.115542	0.6	9	80	1	200	BW	Submersible	2	Reddish Yellow	1
150	Kadayampatty	Danishpet	Periyavadagampatty	11.881157	78.143809	0.5	10	120	2	200	BW	Submersible	2	Reddish Yellow	1
151	Kadayampatty	Danishpet	Gandhinagar	11.874544	78.131669	0.7	12	150	2	200	BW	Submersible	2	Reddish Yellow	1
152	Kadayampatty	Danishpet	Lokur	11.921701	78.165857	0.5	10	120	1	200	BW	Submersible	2	Reddish Yellow	1
153	Kadayampatty	Kannavaiputhur	Kannavaiputhur	11.931062	78.183819	0.5	6	70	1	200	BW	Submersible	2	Reddish Yellow	0.50
154	Kadayampatty	Kannavaiputhur	Selvasamuthram	11.953062	78.228101	0.5	11	140	2	300	BW	Air-Compressor	2	Reddish Yellow	1
155	Kadayampatty	Kannavaiputhur	Ramamoorthynagar	11.967942	78.232578	0.6	10	90	1	200	BW	Submersible	2	Reddish Yellow	0.50
156	Kadayampatty	Veppillai	Govindapuram	11971652	78.175811	0.6	10	90	1	200	BW	Air-Compressor	2	Reddish Yellow	1
157	Kadayampatty	Veppillai	Ammaneri	11.946997	78.136611	0.5	8	100	2	220	BW	Submersible	3	Reddish Yellow	1
158	Kadayampatty	Goondakal	Kottalur	11.890929	78.030167	0.5	10	110	1	200	BW	Submersible	2	Reddish Yellow	0.50
159	Kadayampatty	Theevatipatty	Nainakadu	11.857886	78.096071	0.5	10	60	1	200	BW	Submersible	2	Reddish Yellow	1
160	Kadayampatty	Karuvalli	Chinnatirupathy	11.825909	78.029281	0.6	9	80	3	250	BW	Submersible	3	Reddish Yellow	1

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