

# PRAKASH QUARRY

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Mr. Prakash N, Survey Nos. 230/1, 230/4, 230/5, 230/9,230/10, 230/11, 230/12,231/5,Mangalam  
Dam Village, Alathur Taluk, Palakkad District.

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Date:01/12/2022

From

Prakash N

Prakash quarry, Palakkad dist.

Date: 01/12/2022

To

HOD

PG Department of Applied Geology

Gems Arts and Science College, Ramapuram

Subject: Detailed Groundwater Study of Prakash Quarry

Sir

I am writing behalf of the Prakash quarry, a leading mining and quarrying operation in Alathur taluk. Palakkad district.we are eager to obtain the necessary approvals for our quarry expansion, we kindly request your department to conducting a detailed geophysical resistivity survey for the groundwater investigation of the quarry site. We are prepared to provide any necessary resources .Hoping for a positive response.

Sincerely

Prakash N



Circular No: GEO/22-23/06

Date: 14/12/2022

CIRCULAR

This is to inform you that Department of Applied Geology is conducting an Extension activity program in "Groundwater investigation and Interpretation of groundwater potential for Prakash Quarry, Palakkad district on 17<sup>th</sup> December 2022.



Head of the department

ABDUL RAHMAN.C.V  
HEAD OF THE DEPARTMENT  
P.G DEPT. OF APPLIED GEOLOGY  
GEMS ARTS & SCIENCE COLLEGE  
RAMAPURAM, KADUNGAPURAM P.O.



**PG DEPARTMENT OF APPLIED GEOLOGY**  
in association with IQAC

# **GROUND WATER INVESTIGATION**

**17 DECEMBER, 2022**



**GEMS ARTS AND SCIENCE COLLEGE**  
RAMAPURAM

**ABDUL RAHMAN.C.V**  
HEAD OF THE DEPARTMENT  
P.G DEPT. OF APPLIED GEOLOGY  
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**Dr. NAVEEN MOHAN**  
PRINCIPAL

**GEMS ARTS AND SCIENCE COLLEGE**  
KADUNGAPURAM (PO), RAMAPURAM  
MALAPPURAM DT., KERALA-679 321

**PROGRAM REPORT**  
**GROUNDWATER INVESTIGATION CARRIED OUT AT PRAKASH**  
**QUARRY**  
**17.12.2022**

A detailed groundwater investigation has been carried out for Prakash Quarry on the request of the proponent Mr. Prakash for on 17/12/2022 at Mangalam dam village, Alathur taluk. Palakkad district to characterize the occurrence, distribution and movement of groundwater in a newly proposed Charnockite–gneiss bearing hard-rock quarry site. The specific objectives of the study area were (1) investigate the availability of groundwater (2) deciphering the depth to potential Aquifer zones (3) types and spatial distribution of aquifers. To achieve these objectives, available hydrogeological information from Central Groundwater Board (CGWB), Govt. of India, Groundwater Department (GWD), Govt. of Kerala, Centre for Water Resources Development and Management (CWRDM) etc. has been integrated with field observations such as geomorphology, hydrogeology, rock-type distribution, structural parameters and detailed geoelectrical resistivity survey of the region of interest. Based on the investigation, it is identified that the water table in this region lies at a depth of approximately 110 m or below the ground level. Dr. K. Gopalakrishna (Professor), Mr. Abdul Rahman C.V (Asst. Professor) and Mohammed Mahroof (M.Sc. Student) P.G Dept. Of Applied Geology, undertook the study.



  
**Dr. NAVEEN MOHAN**  
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# Photographs

## GROUNDWATER INVESTIGATION CARRIED OUT AT PRAKASH QUARRY,

17/12/2022

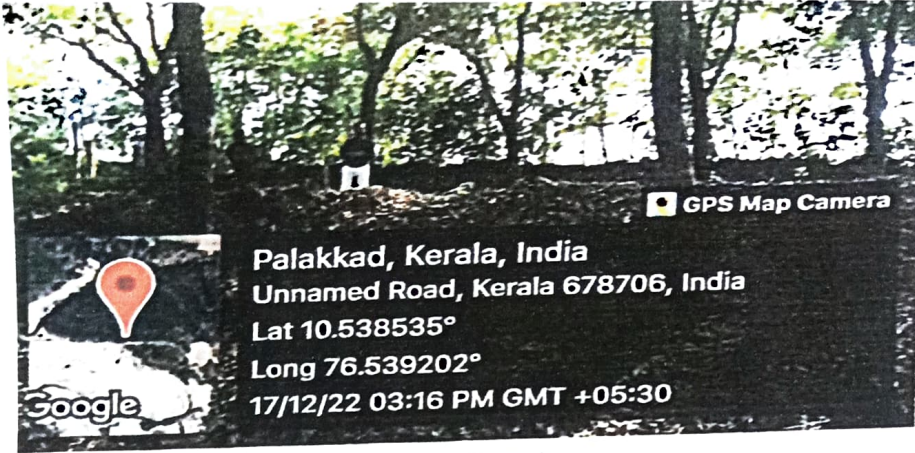


Figure 2. Field investigation



## GROUNDWATER INVESTIGATION CARRIED OUT AT PRAKASH QUARRY, 17/12/2022



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## P.G. DEPARTMENT OF APPLIED GEOLOGY

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### CERTIFICATE

This is to certify that, the information and data presented here is based on the field survey work carried out by the Hydrogeology-Groundwater monitoring team led by the undersigned for gneissic charnockite Mr. Prakash N, Re survey Nos: 230/1, 230/4, 230/5, 230/9, 230/10, 230/11, 230/12, 231/5 of Mangalam Dam Village of Alathur Taluk of Palakkad District, mining Area of 3.8148 Ha. Have been compiled and executed by the team. We certify the data presented here which is documented and verified by the experts in the relevant field.

**Mr. Abdul Rahman C V,**

(M.S.c.)

**Dr. Gopalakrishna K**

(M.S.c, PhD, FMSI)