

Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 • Telefax: 080-23348840 Email: office@kscst.iisc.emet.in, office@kscst.org.in • WebsIte: www.kscst.iisc.emet.in, www.kscst.org.in

Mr. H. Hemanth Kumar Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal, Alva's Institute of Engineering and Technology, Shobavana Campus, Mijar, Moodbidri - 574 225.

Dear Sir/Madam,

Sub: Sanction of Student Project - 42nd Series: Year 2018-2019

Your Project Proposal Reference No.: 42S_BE_0690

DELINEATION OF GROUND WATER POTENTIAL ZONES AT Ref : Your Project Proposal entitled "

MOODBIDRI BY ELECTRICAL RESISTIVITY AND REMOTE

SENSING TECHNIQUE

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Mr. Ramesh	Budget	Amount (Rs)
and others	Materials/Consumables	4,000.00
	Labor	500.00
Guide/s Dr. H G Umeshchandra	Travel	500.00
Civil Engineering	Miscellaneous	500.00
partment Civil Engineering	Report •	500.00
	TOTAL	6,000.00
SIX THOUSAND RUPEES ONLY		
	and others Dr. H G Umeshchandra Civil Engineering	and others Dr. H G Umeshchandra Civil Engineering Materials/Consumables Labor Travel Miscellaneous Report TOTAL

The following are the guidelines to carryout the project work:

- a) The project should be performed based on the objectives of the proposal sent by you.
- b) The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- c) Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- d) Please quote your project reference number printed above in all your future correspondences.
- Important: After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following:
 - 1) Title of the project
 - 2) Name of the College & Department

PRBYOName of the students & Guide(s)

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425_BE_0690

6) Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines

- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines) (materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions (about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).
 (Note: The write-up (Synopsis) should be sent with the approval of project guide.
 The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)
- e) Projects selected for Seminar / Exhibition will be awarded.

The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details as per the format enclosed with this letter.

The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,

H. Humanth Kumar)

Copy to:

- copy to.

 1) The Head of the Department of
 Civil Engineering
 Alva'S Institute Of Engineering And Technology,
 Shobavana Campus,
 Mijar,
 Moodbidri 574 225.
- Dr. H G Umeshchandra
 Department of Civil Engineering
 Alva'S Institute Of Engineering And Technology,
 Shobavana Campus,
 Mijar,
 Moodbidri 574 225.
- 3) The Finance Officer, KSCST, Bangalore

Encl: As Above

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JnanaSangama" Belagavi – 590018



PROJECT REPORT ON "DELINEATION OF GROUND WATER POTENTIAL ZONES AT MOODBIDRI BY ELECTRICAL RESISTIVITY AND REMOTE SENSING TECHNIQUE"

Submitted in partial fulfilment of the requirements for the award of degree

Sponsored by Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru – 560 012

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING Submitted By

Name
RAMESH
USN
4AL15CV078
SANGANABASAV STHAVARMATH
4AL15CV088
SANGEETHA B
4AL15CV089
SHALINI C N
4AL15CV093

Under the Guidance of Dr. H G UMESHCHANDRA ASSOCIATE PROFESSOR DEPARTMENT OF CIVIL ENGINEERING



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI – 574 225. 2018-19

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation®, Moodbidri)

"Shobhavana", Mijar, Moodbidri – 574 225, D.K.
DEPARTMENT OF CIVIL ENGINEERING

Certificate

This is to certify that following students

Name	USN
RAMESH	4AL15CV078
SANGANABASAV STHAVARMATH	4AL15CV088
SANGEETHA B	4AL15CV089
SHALINI C N	4AL15CV093

The submitted Final report on "DELINEATION OF GROUND WATER POTENTIAL MONES AT MOODBIDRI BY ELECTRICAL RESISTIVITY AND REMOTE MENSING TECHNIQUE" for VIII Semester Bachelor of Engineering in Civil Engineering the academic year 2018-19. The final report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Signature of the Project

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Guide Dr. H G Umeshchandra Signature of the Project

Dept. of Givi Engineering
Alva's Institute of Engg. & Technology
DMiltr-Mith-Highba 74 225

Signature of the Project

Principal

Dr. Peter Fennandes

Alva's Institute of Engg. & Technology, Mijar, MOODBIDRI - 574 225 D.K

Name of the Examiners

1.

2.

Signature with Date

ABSTRACT

A peophysical survey conducted in the Moodbidri and nearby the area of North-East part of the shina Kannada district using electrical resistivity method. A total 20 vertical electrical medings has been taken to depict groundwater potential zone in the area under study and also mediatand the thickness of weathered zone/formation relevant to groundwater behaviors of anothers in alluvium and in the trap rock.

water plays a vital role in the development of agricultural activities in the study area. The matter water resources are inadequate to fulfill the water demand. Productivity through matter is quite high as compared to surface water, but groundwater resources have not yet matter a properly exploited. Keeping this view, the present study to delineate various groundwater matter and the substance of groundwater availability in the Moodbidri Sub-basin, was a least and Dakshina Kannada. 20 Schlumberger Vertical Electrical Sounding (VES) were carried out in the study area. The field data were interpreted by IGIS-VES software and to prepare spatial distribution map using GIS. Integration analysis was carried with the property of first and second layer fracture zone with the corresponding resistivity maps. This was superposed over geology map. The suitable potential zones for groundwater were defined to from first layers combinations of low resistivity with more thickness in areas occupied to mail the superpose of the spatial distribution variations in different resistivity and dug-wells were suggested. The spatial distribution variations in different resistivity and the findings.