



PROGRAM REPORT TEMPLATE

Title of the Program: Site Visit report on Research Institute 'MERI' for SE civil Students for FM Subject.

Number of Day(s): 01 Days

Dates(s) of Conduction: 7th November 2023

Venue: Practical: MERI, Dindori Road, beside CDO-MERI Colony, Nashik, Maharashtra 422004.

Number of Participants:

Male: 21

Female: 06

Program Objectives:

1. To know about the importance of Fluid Mechanics subject practically and its application.
2. To know the basic information about Research Institute like Maharashtra Engineering Research Institute (MERI).
3. To study the various disciplines of civil engineering like soil mechanics, construction material studies, testing, highway, coastal, remote sensing & GIS, seismology, hydraulic model studies, reservoir sedimentation studies etc.
4. To Study the modeling, testing and calibrating the hydraulic structures like outlet, spillway etc.

Name & Contact Details of the Resource Person(s):

1. Prof. Pradeep T. Kumawat

Mobile: 9175164142

2. Prof. Neha Dilip Patil

Mobile: 7741828505

Description / Explanation of the Program:

Department of civil engineering organized an visit on Research Institute like Maharashtra Engineering Research Institute (MERI), Nashik for all Second Year students. In this site visit we will focused on topics related to importance of Fluid Mechanics subject and its application in civil engineering field. MERI Engineers giving all instruction and important knowledge about the MERI and its working organisation and also its role in research field.

The outcome of the Talk / Event:

1. Understand the Maharashtra Model.
2. knowledge about the MERI and its working organisation.
3. Known that construction material studies and testing.
4. Understand types of spillways, Canals and understand the canal structures.
5. Understand the seismic data collection system, analysis and maintenance of seismic recorders.

Site Visit Report on Research Institute MERI:

The Maharashtra Engineering Research Institute (MERI) was established in the year 1959. It is the prime institute of Maharashtra state under Water Resources Department. It is entrusted with the work of applied research in various disciplines of civil engineering like soil mechanics, construction

material studies, testing, highway, coastal, remote sensing & GIS, seismology, hydraulic model studies, reservoir sedimentation studies etc. It is largely dealing with field problems of applied research pertaining to various projects. The 8 Divisions working under the Superintending Engineer & Jt. Director carry out following activities.

- 1) Crop acreage measurement using remote sensing technique (RST) and GIS and assessment of reservoir sedimentation using RST & Bathymetry.
- 2) The seismic data collection, analysis and maintenance of seismic recorders.
- 3) Modeling, testing and calibrating the hydraulic structures like outlet, spillway, reservoir instrumentation etc.
- 4) On field testing of strength of road, their sub-grade and roughness of road.
- 5) The testing of construction materials like cement, aggregate, sand, concrete, rock, steel, RCC pipe, soil and water for their engineering properties.
- 6) Plate load test, NDT, Concrete mix design, testing on 2000 tons capacity machine.

MERI is having an overall control of following State level Water Resources Organization:

- Central Designs Organization (D)
- Maharashtra Engineering Training Academy (T)
- Planning and Hydrology (H)
- Maharashtra Engineering Research Institute (R)
- Dam Safety Organization (S)
- Quality Control Circles (QC)
- State Level Technical Advisory Committee (TAC)

Under the guidance of 2 Chief Engineers, the functions of these independent organizations are carried out by the 12 Superintending Engineers and 56 Executive Engineers. These organizations carry out Planning & Hydrology, Design, Research, Quality assurance and Safety of Water Resources projects of the state. The Training of in-service Engineers and Directly recruited Engineers is conducted at META. The Planning, Design, Research and Dam safety issues of Water Resources are taken up on Consultancy basis. These organizations have involved in drafting many codes of Civil Engineering under BIS.

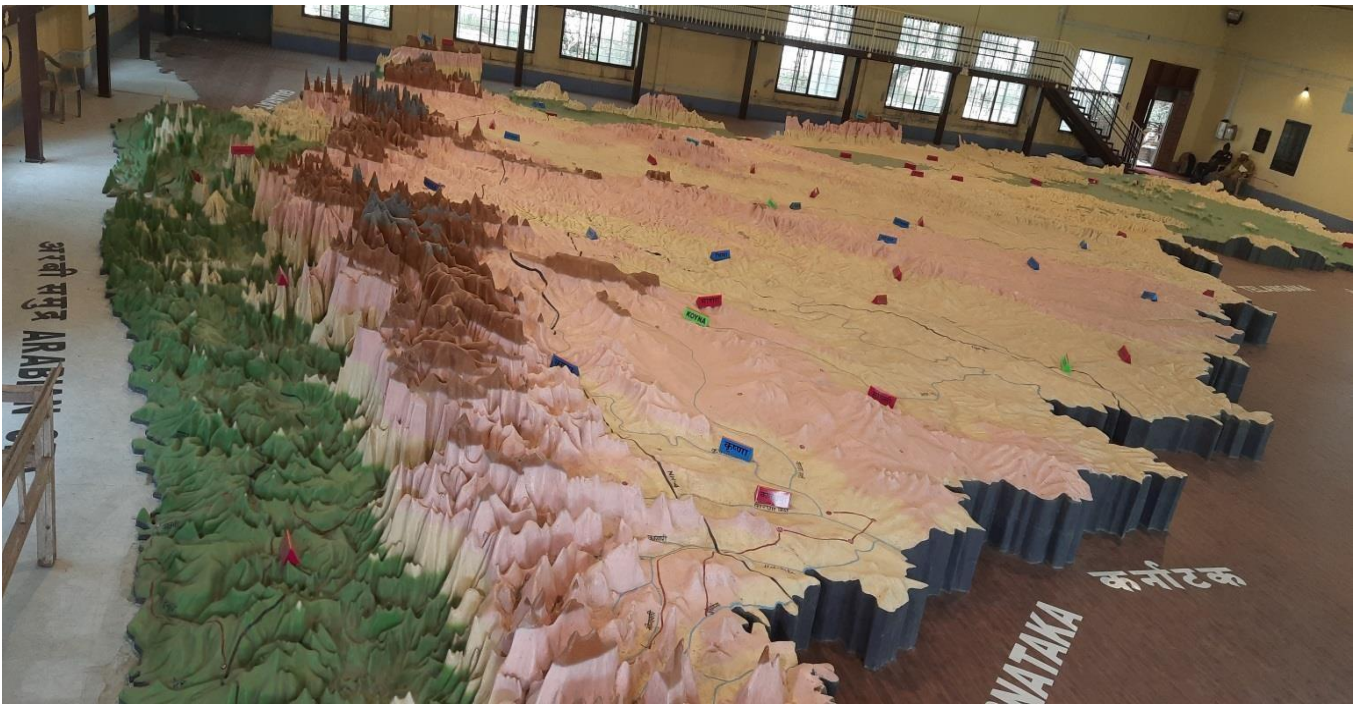
Maharashtra Engineering Research Institute (MERI) conducted various activity:

- Crop mapping e.g. Sugarcane, Banana, Grape etc.
- Green cover mapping
- Land use land cover mapping study.
- Hydro cover mapping study.
- Urbanization in command area of Major Projects

Maharashtra model:


At Maharashtra model division the officer has explained the mountain series of Maharashtra. They have made actual model of rives, valleys, mountain, hilley of Maharashtra on scale.

Photographs of the Site Visit:




Maharashtra Model at MERI

प्रशासन अधिकारी
 महाराष्ट्र अभियांत्रिकी संशोधन संस्था,
 नाशिक ४२२ ००४.
 दूरध्वनी क्र. ०२५३-२५३११५३
 ई-मेल : adm.meri@gmail.com
 संकेतस्थळ : www.merinashik.org


 सत्यमेव जयते
 जलसंपदा विभाग

Administrative Officer
 Maharashtra Engineering
 Research Institute,
 Nashik 422 004
 Phone No. : 0253-2531153
 Email:adm.meri@gmail.com
 Web : www.merinashik.org


 स्वातंत्र्याचा अमृत महोत्सव

No. MERI / TS/847/ 2023 Date : 02/11/2023
 By Email
 To,
 Pricipal,
 Late G.N.S. College of Engineering,
 Nashik.

Sub: Permission to visit MERI, Nashik
Ref : Your Letter Ref..KCT/LGNSCOE/CIVIL/FM-Visit dt :- 27/10/2023

With reference to your above letter, the permission to visit MERI, Nashik is herewith granted to Second Year Engineering (58) students and faculty member (02) on date **07/11/2023**
Date - 07/11/2023

Sr.No.	Name of Division	Timing
1	Maharashtra Model	11.30 to 12.00
2	Soil Testing Division (M.E.R.I.) Nashik-4	12.00 to 12.30
3	Material Testing Division (M.E.R.I.) Nashik-4	12.30 to 13.00
4	Seismic Cell, Nashik-4	13.00 to 13.30
5	Highway Research Division No.1	14.00 to 14.30
6	Resources Engineering Centre (M.E.R.I.) Nashik-4	14.30 to 15.00
7	Hydrodynamics Research Division	15.00 to 16.00

Rules to be followed:

1. The list of the Students should be given at the time of Visit.
2. Students may please be instructed to observed discipline and silence in office premises.
3. Uniform with Identity card is compulsory.
4. Use dustbin for waste material disposal. Visitor institute will be responsible for any damages to Government property.

(S. D. Shinde)
 Administrative Officer,
 Maharashtra Engineering Research
 Institute (M.E.R.I.) Nashik-4

Copy forwarded for information and necessary action to:
 Executive Engineer, Resources Engineering Centre (M.E.R.I.) Nashik-4
 Scientific Research Officer, Soil Testing Division (M.E.R.I.) Nashik-4
 Scientific Research Officer, Material Testing Division (M.E.R.I.) Nashik-4
 Executive Engineer, Instrumentation Research Division, Hydrology Nashik-4
 Research Officer, Highway Research Division No.1, (M.E.R.I.), Nashik-4
 Executive Engineer, Civil Works Maintenance Division (M.E.R.I.) Nashik-4
 Research Officer, Hydrodynamics Research Division, MERI Building Nashik-4

Permission letter with schedule of visit



 **GPS Map Camera**

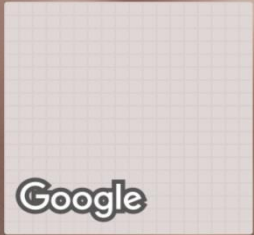


Nashik, Maharashtra, India
2RH2+53J, CDO-MERI Colony, Nashik, Maharashtra 422004, India
Lat 19.871848°
Long 73.972271°
07/11/23 12:42 PM GMT +05:30

Soil Testing Division




 **GPS Map Camera**



Malegaon, Maharashtra, India
Plot No:- D-60, MIDC, Malegaon Industrial Area, Malegaon, Maharashtra 422113, India
Lat 19.871848°
Long 73.972271°
07/11/23 12:18 PM GMT +05:30

Highway Research Division



 **GPS Map Camera**

Nashik, Maharashtra, India
2RH2+53J, CDO-MERI Colony, Nashik, Maharashtra 422004, India
Lat 19.871848°
Long 73.972271°
07/11/23 02:01 PM GMT +05:30



Model Testing Division



 **GPS Map Camera**

Nashik, Maharashtra, India
2RH2+53J, CDO-MERI Colony, Nashik, Maharashtra 422004, India
Lat 19.871848°
Long 73.972271°
07/11/23 01:08 PM GMT +05:30



seismic data collection, analysis and maintenance division



Group photo with M.S. Kulkarni sir (Sectional Engineer), K.V.Gunjaj sir (Sectional Engineer), K.S.Patil (Research Assistant) and SE Civil students