

**G.S. Mandal's**  
**Marathwada Institute of Technology, Aurangabad.**  
**Civil Engineering Department**

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**WEBINAR REPORT**

**Topic of webinar : “Case Studies in Geotechnical Engineering”**

**Date of webinar : 7<sup>th</sup> August 2021**

**Time: 11:30am**

**Details of Speaker : Er. Ravi Sundaram**

**Designation/ post : Director, Cengrs Geotechnica Pvt. Ltd. Noida, India**

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A Webinar on the topic “**Case Studies in Geotechnical Engineering**” was arranged by IGS Aurangabad Chapter in association with Civil Engineering Department, Marathwada Institute of Technology, Aurangabad on 7<sup>th</sup> August 2021 at 11:30 am. Er. Ravi Sundaram, Director, Cengrs Geotechnica Pvt. Ltd. Noida, India was the resource person. More than 80 participants (including students and faculty) attended the webinar.

Er. Ravi Sundaram discussed different case studies in Geotechnical Engineering wherein the importance of geological and soil investigation was covered. The undergraduate were highly benefitted by his talk.

Dr. Manish S. Dixit introduced the speaker. Vote of thanks was proposed by Prof. S.G. Quadri, Joint Secretary, IGS Aurangabad chapter. Prof. S.N. Pawar and Prof. Y.D. Shermale took efforts in successful completion of the webinar.


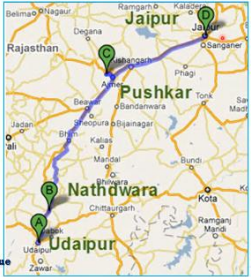
Dr. Manish S. Dixit  
HCED (MIT) |Hon. Secretary,  
IGS Aurangabad Chapter

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Ravi Sundaram is presenting

### Lord Shiva Statue at Nathdwara

Architect's Visualization / model of statue

11:39 AM | Case Studies in Geotechnical Engineering

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### Costs Involved

	Bronze	Silver	Gold	Platinum
Ground Investigation	shallow boreholes no testing and/or sampling	boreholes > toe depth of pile SPT testing Index testing	Silver + more boreholes, some insitu testing for modulus, laboratory testing for permeability, modulus and strength	Gold + comprehensive insitu and laboratory testing for modulus, strength and permeability, static pile load testing
Geotechnical Engineer	Limited experience Non expert	Experienced Limited in expertise	Experienced Expert	Experienced Expert
Design Parameters	Guessed	Generic	Site specific	Enhanced site specific
Analysis	None	Empirical	Silver + simple theoretical or basic numerical modelling	Gold + advanced numerical modelling
Design	Rules of thumb (overly conservative) Usually over designed May be unsafe	Empirical, Load based, standard industry Usually over designed Safe	Improved Serviceability based Partially optimised design Practical to build	Optimised Serviceability based Optimised design Practical to build Safe
Foundations				
Risk	High	Low	Very Low	Very Low
Cost	\$50k	\$80k	\$120k	\$300k

11:35 AM | Case Studies in Geotechnical Engineering

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07-08-2021