

Soil Survey And Land Evaluation Academic PDF

soil survey and land evaluation are fundamental processes in the fields of agriculture, environmental management, land use planning, and sustainable development. These procedures provide critical insights into the characteristics, capabilities, and limitations of land resources, enabling stakeholders to make informed decisions for optimal land utilization. As the world faces increasing pressure to balance development with environmental conservation, understanding soil survey and land evaluation becomes more essential than ever. This comprehensive guide explores the concepts, methodologies, applications, and benefits of soil survey and land evaluation, emphasizing their significance in modern land management.

Understanding Soil Survey and Land Evaluation

What is Soil Survey?

Soil survey is the systematic examination, description, and classification of soils in a specific area. It involves collecting data about soil properties, distribution, and suitability for various land uses. The primary goal is to create detailed soil maps that serve as a basis for land use planning, agriculture, and environmental conservation.

Key Objectives of Soil Survey:

- Identify soil types and their distribution
- Assess soil fertility and health
- Determine soil suitability for various crops and land uses
- Detect soil limitations and risks such as erosion or salinity
- Provide data for sustainable land management

What is Land Evaluation?

Land evaluation is a process that assesses the land's potential and limitations for specific uses based on soil, climate, topography, and other environmental factors. It aims to determine the most suitable land uses and guide decisions on land development, conservation, and management.

Core Aspects of Land Evaluation:

- Compatibility of land with intended use
- Productivity potential
- Environmental impact and sustainability
- Economic viability
- Social and ecological considerations

The Importance of Soil Survey and Land Evaluation

Understanding and implementing soil surveys and land evaluations are crucial for several reasons:

- **Enhancing Agricultural Productivity:** Proper assessment ensures that crops are grown on suitable soils, optimizing yields and reducing resource wastage.
- **Sustainable Land Use Planning:** Helps prevent overexploitation and degradation of land resources.
- **Environmental Conservation:** Identifies sensitive areas requiring protection or special management.
- **Mitigating Land Degradation:** Detects issues like erosion, salinity, or compaction early, enabling remedial actions.
- **Informed Policy Making:** Provides scientific data to support land use policies and development projects.
- **Risk Management:** Assists in identifying hazards such as flooding or landslides related to land characteristics.

Methodologies in Soil Survey and Land Evaluation

Steps in Conducting a Soil Survey

- **Planning and Reconnaissance:** Defining objectives, selecting the survey area, and preliminary reconnaissance.
- **Field Investigation:** Soil sampling, profile description, and mapping based on observations.
- **Laboratory Analysis:** Testing soil samples for physical and chemical properties such as pH, texture, nutrient content, and organic matter.
- **Classification and Mapping:** Using classification systems (e.g., USDA Soil Taxonomy, World Soil Resources) to categorize soils and create detailed maps.
- **Data Interpretation:** Analyzing soil data to assess suitability and limitations.
- **Reporting and Recommendations:** Preparing reports with maps, classifications, and land use suggestions.

Steps in Land Evaluation

- Data Collection: Gathering data on soil characteristics, climate, topography, and land use.
- Suitability Analysis: Comparing land attributes with requirements for specific uses (e.g., agriculture, forestry, construction).
- Development of Evaluation Criteria: Establishing standards and weightings for various land attributes.
- Assessment and Scoring: Quantifying land suitability based on criteria.
- Land Suitability Classification: Categorizing areas into classes like highly suitable, moderately suitable, marginal, or unsuitable.
- Decision-Making: Using evaluation results to guide land use planning and management.

Tools and Techniques in Soil Survey and Land Evaluation

- Remote Sensing: Satellite imagery and aerial photography facilitate large-area assessments and monitoring.
- Geographic Information Systems (GIS): Integrates spatial data, enhances mapping accuracy, and supports complex analyses.
- Soil Sampling Equipment: Augers, auger drills, and penetrometers for in-situ measurements.
- Laboratory Instruments: For analyzing soil physical and chemical properties.
- Digital Soil Databases: Maintain comprehensive soil data for easy access and analysis.

Applications of Soil Survey and Land Evaluation

In Agriculture

- Selecting appropriate crops based on soil type and fertility
- Designing effective irrigation and fertilization plans
- Implementing conservation practices

In Urban and Regional Planning

- Identifying suitable sites for infrastructure development
- Assessing risks associated with land instability or flooding
- Zoning and land use regulation

In Environmental Conservation

- Protecting sensitive ecosystems and wetlands

- Managing land degradation and erosion
- Restoring degraded lands

In Forestry and Land Reclamation

- Determining suitable forest species
- Planning reforestation projects
- Restoring mined or disturbed lands

Challenges and Limitations

While soil survey and land evaluation are invaluable, they face certain challenges:

- Cost and Time: Comprehensive surveys can be resource-intensive.
- Data Accuracy: Variability in soil properties can complicate assessments.
- Dynamic Nature of Soils: Soils change over time due to management, climate, and natural processes.
- Technical Expertise: Requires trained professionals for accurate interpretation.
- Access Restrictions: Difficult terrain or private land ownership can limit survey activities.

Future Trends in Soil Survey and Land Evaluation

- Digitalization and Big Data: Leveraging advanced GIS and cloud computing for detailed and real-time data analysis.
- Precision Agriculture: Using soil and land data for site-specific management practices.
- Integration with Climate Models: Assessing future land suitability under changing climate scenarios.
- Community Involvement: Engaging local stakeholders for sustainable land use decisions.
- Development of Standardized Protocols: Ensuring consistency and comparability of data globally.

Conclusion

Soil survey and land evaluation are indispensable tools in the pursuit of sustainable land management. They provide detailed insights into the physical, chemical, and biological properties of soils, enabling informed decisions that balance productivity with conservation. As technology advances, these processes are becoming more precise and accessible, fostering better planning and management of land resources worldwide. Whether for agriculture, urban development,

environmental protection, or forestry, understanding and applying soil survey and land evaluation principles are vital for building resilient and sustainable landscapes for future generations.

Key Takeaways:

- Soil survey involves detailed mapping and classification of soils.
- Land evaluation assesses land suitability for specific uses.
- Both processes support sustainable development and environmental conservation.
- Modern tools like GIS and remote sensing enhance survey accuracy.
- Continuous research and technological integration are shaping the future of soil and land assessment.

By investing in comprehensive soil surveys and meticulous land evaluations, societies can optimize land use, safeguard ecosystems, and promote economic and environmental sustainability.

Soil Survey and Land Evaluation: An Expert Guide to Understanding and Utilizing Soil Resources

In the realm of land management, agriculture, environmental planning, and sustainable development, understanding the characteristics of the land is fundamental. Among the most critical tools for this purpose are soil surveys and land evaluations. These processes serve as the backbone for making informed decisions regarding land use, conservation, and development. In this comprehensive review, we will explore the concepts, methodologies, applications, and significance of soil survey and land evaluation, drawing insights from expert practices and latest advancements in the field.

Understanding Soil Survey: Foundations of Soil Characterization

A soil survey is a systematic investigation and mapping of the soil types and properties within a specific area. It provides a detailed description of soil characteristics, distribution, and classification, which are essential for land use planning and resource management.

Objectives of Soil Survey

- To identify and classify soil types based on physical and chemical properties.
- To understand soil distribution and variability across a landscape.
- To provide information for agricultural suitability, forestry, urban planning, and environmental conservation.
- To assist in land management decisions, including drainage, irrigation, and soil conservation practices.

Methodology of Soil Survey

The process of conducting a soil survey involves several sequential steps:

- Preliminary Planning

- Defining survey objectives.
- Selecting the survey area.
- Gathering existing data and maps.
- Planning fieldwork logistics.

- Field Investigation

- Reconnaissance surveys to identify different landforms and soil types.
- Systematic soil sampling and profile description.
- Use of tools like augers, pits, and probes to examine soil horizons.
- Recording soil color, texture, structure, depth, moisture, and other visible features.

- Laboratory Analysis

- Analyzing soil samples for physical and chemical properties such as pH, nutrient content, organic matter, and texture.
- Laboratory tests complement field observations for detailed characterization.

- Soil Classification and Mapping

- Utilizing classification systems like the USDA Soil Taxonomy or FAO/WRB.
- Creating soil maps that depict the spatial distribution of different soil types.
- Incorporating GIS technology for precise mapping and data management.

- Reporting

- Compiling findings into comprehensive reports.
- Providing soil legends, descriptions, and suitability maps.

Types of Soil Surveys

- Reconnaissance Soil Survey: A broad overview, identifying major soil types and landforms.
- Detailed Soil Survey: In-depth investigation at a finer scale, suitable for specific land use planning.
- Interpretive Soil Survey: Focused on deriving land use capabilities and limitations from detailed data.

Land Evaluation: Assessing Land Capability and Suitability

While soil surveys provide the foundational data, land evaluation interprets this information to determine the land's potential for specific uses. It involves a systematic assessment of soil, climate, topography, and other environmental factors to classify land based on its capacity to support various activities.

Goals of Land Evaluation

- To determine the suitability of land for agriculture, forestry, urban development, or conservation.
- To identify limitations and potential risks associated with land use.
- To guide sustainable land management practices.
- To prioritize land for conservation or development.

Principles of Land Evaluation

- Integrated Approach: Combining soil data with climate, relief, and socio-economic factors.
- Use-Driven: Focused on specific land uses and management goals.
- Quantitative and Qualitative Analysis: Employing both scientific measurements and expert judgment.

Steps in Land Evaluation

- Data Collection

- Incorporating soil survey data, climate records, topographical maps, and land use history.
- Land Classification
 - Categorizing land based on capability classes (e.g., suitable, marginal, unsuitable).
 - Using land classification systems like the Land Capability Classification system or Land Suitability Classification.
- Assessment of Land Characteristics
 - Evaluating factors such as drainage, slope, erosion risk, fertility, and salinity.
- Suitability Analysis
 - Matching land characteristics with specific land use requirements.
 - Identifying limitations and potential for improvement.
- Recommendation Development
 - Proposing management practices, land use patterns, or reclamation measures.
 - Prioritizing land for conservation or development.

Land Evaluation Techniques and Tools

- Rating Systems: Assigning scores to different land attributes based on their suitability.
- Overlay Mapping: Combining various thematic maps to visualize land capability.
- GIS and Remote Sensing: Employing advanced spatial technologies for detailed analysis.
- Suitability Index Methods: Quantitative approaches to compare land options objectively.

Applications and Significance of Soil Survey and Land Evaluation

The practical applications of soil survey and land evaluation are vast, impacting multiple sectors:

- Agriculture: Determining crop suitability, optimizing land use, and improving soil management practices.
- Urban Planning: Identifying suitable sites for infrastructure, minimizing land degradation.
- Forest Management: Ensuring sustainable forestry practices based on soil and land capability.
- Environmental Conservation: Protecting fragile ecosystems by understanding land limitations.
- Land Reclamation: Planning reclamation projects for degraded or marginal lands.
- Policy and Decision Making: Providing scientific data for land use policies and sustainable development plans.

Significance in Sustainable Development

In an era of increasing environmental concern and resource scarcity, soil survey and land evaluation serve as critical tools for promoting sustainable land use. They enable stakeholders to balance economic development with ecological preservation, reduce land degradation, and ensure food security.

Challenges and Future Perspectives

Despite their importance, soil survey and land evaluation face several challenges:

- Data Limitations: Incomplete or outdated data can hinder accurate assessment.
- Complexity of Soil Systems: Soil properties are dynamic and influenced by numerous factors.
- Technological Barriers: Limited access to advanced GIS and remote sensing tools, especially in developing regions.
- Climate Change: Alterations in climate patterns impact soil health and land suitability over time.

Emerging Trends and Innovations

- Digital Soil Mapping: Utilizing high-resolution spatial data for more precise and real-time soil information.
- Machine Learning: Applying AI techniques to interpret complex datasets and improve predictions.
- Integrated Land Information Systems: Combining soil, climate, topography, and socio-economic data into unified platforms.
- Participatory Approaches: Engaging local communities in soil and land management decisions.

Conclusion

Soil survey and land evaluation are indispensable components of responsible land stewardship.

They provide the scientific foundation needed to make informed decisions, optimize land use, and promote sustainable development. As technological innovations continue to evolve, these processes will become more accurate, efficient, and accessible, empowering policymakers, farmers, environmentalists, and urban planners to work collaboratively toward a balanced and resilient future.

In essence, thorough soil survey and land evaluation are not merely academic exercises; they are vital tools that underpin the sustainable management of our planet's precious land resources. Their strategic application ensures that land remains productive, healthy, and capable of supporting life for generations to come.

Question What is the primary purpose of conducting a soil survey? The primary purpose of a soil survey is to assess the physical, chemical, and biological properties of soils in a specific area to inform land use planning, agricultural suitability, and environmental management. **How does land evaluation differ from soil survey?** Soil survey focuses on mapping and describing soil types and properties, while land evaluation assesses the land's capability and suitability for specific uses such as agriculture, construction, or conservation based on soil and environmental data. **What are the key factors considered during a land evaluation?** Key factors include soil fertility, drainage, slope, climate, land use history, and environmental constraints that influence the land's suitability for particular purposes. **How can soil surveys contribute to sustainable land management?** Soil surveys provide essential data that help in making informed decisions about land use, preventing degradation, optimizing land productivity, and promoting conservation practices for sustainable management. **What modern technologies are used in soil surveys today?** Modern technologies include Geographic Information Systems (GIS), remote sensing, digital soil mapping, and GPS for accurate data collection and spatial analysis. **Why is land evaluation important for agricultural development?** Land evaluation helps identify the most suitable areas for different crops and farming practices, thereby increasing productivity, reducing environmental impact, and ensuring efficient land use. **What are the challenges faced in soil surveys and land evaluation?** Challenges include data accuracy, variability of soil properties, lack of up-to-date information, high costs, and the need for specialized expertise to interpret complex data.

Related keywords: soil mapping, land classification, soil fertility, land use planning, soil testing, geospatial analysis, land suitability, soil conservation, environmental assessment, land resource management

kundrathur map with survey number

Kundrathur map with survey number is an essential resource for anyone interested in land, property, or real estate transactions in the Kundrathur area of Tamil Nadu. Whether you are a

potential property buyer, a landowner, a developer, or a government official, having access to an accurate and detailed map with survey numbers can simplify your planning and decision-making process. This article provides comprehensive insights into the significance of Kundrathur maps with survey numbers, how to access them, and their importance in land management and property transactions.

Understanding Kundrathur Map with Survey Number

What is a Kundrathur Map?

A Kundrathur map is a detailed geographical representation of the Kundrathur village and its surroundings. It displays various land parcels, roads, water bodies, and other physical features. These maps are used by government authorities, surveyors, and landowners to understand land boundaries and usage.

What is a Survey Number?

A survey number is a unique identifier assigned to a specific land parcel during land surveying. It helps in accurately locating and referencing a particular piece of land within the larger area. Each survey number corresponds to a specific plot, which is recorded in government land records.

Why is the Map with Survey Number Important?

A map with survey numbers provides a clear visual representation of land boundaries along with their official identifiers. This combination helps:

- Identify exact locations of land parcels
- Verify ownership details
- Facilitate land transactions and legal documentation
- Assist in land development and urban planning
- Ensure transparency in property dealings

How to Access Kundrathur Map with Survey Number

Official Government Sources

The most reliable way to access accurate Kundrathur maps with survey numbers is through government portals:

- **Tamil Nadu Department of Survey and Land Records:** The official portal provides digital maps and land records.
- **Chennai District Revenue Department:** Offers land records, including survey maps specific to Kundrathur.
- **Online Land Record Portals:** Platforms like Tamil Nadu Land Records (tn.gov.in) facilitate online access to land maps and survey details.

Visiting Local Revenue Offices

For detailed or physical copies, visiting the local revenue or land registration offices in Kundrathur can be helpful:

- Request land records using the survey number
- Get printed maps and certified copies
- Consult with officials for clarifications

Using GIS and Mapping Tools

Modern Geographic Information System (GIS) tools and mapping software can help visualize land parcels:

- Google Earth and other GIS applications
- Land mapping apps provided by government agencies
- Third-party mapping services that incorporate official land records

Importance of Kundrathur Map with Survey Number in Real Estate

Property Verification and Due Diligence

Before purchasing land or property, verifying the survey number on the map ensures that the land details match official records. This reduces the risk of disputes or fraudulent transactions.

Legal Documentation and Title Transfer

Accurate survey maps are crucial during registration and transfer of property titles. They provide clarity on boundaries, preventing future legal conflicts.

Land Development and Planning

Developers and urban planners rely on detailed maps with survey numbers to design layouts, infrastructure, and ensure compliance with local regulations.

Resolving Land Disputes

Clear maps with survey numbers help resolve boundary disputes by providing visual evidence of land boundaries and ownership.

Benefits of Using Kundrathur Map with Survey Number

- **Accuracy:** Precise land boundary identification.
- **Convenience:** Easy access to land records online or offline.
- **Transparency:** Clear records reduce disputes and misunderstandings.
- **Time-Saving:** Quick verification process for buyers and sellers.
- **Legal Security:** Strong documentation supports legal claims.

How to Read and Interpret Kundrathur Map with Survey Number

Key Elements of the Map

Understanding the map features will help you extract relevant information:

- **Boundary Lines:** Indicate the exact borders of each land parcel.
- **Survey Numbers:** Unique identifiers for each land parcel.
- **Land Dimensions:** Length and width of the plots.
- **Land Use:** Residential, commercial, agricultural, etc.
- **Roads and Access Points:** Connectivity details.

Interpreting the Map for Land Ownership

To verify ownership:

- Locate the survey number on the map.
- Cross-reference with official land records for ownership details.
- Check the adjoining plots for boundary clarity.
- Verify if the physical land matches the map's depiction.

Conclusion

Having access to a detailed **Kundrathur map with survey number** is invaluable for anyone involved in land transactions, development, or land management in the Kundrathur region. These maps provide transparency, accuracy, and legal security, making them essential tools for property verification and planning. Whether you choose to access maps online through government portals, visit local offices, or utilize GIS tools, ensuring you have the correct survey number mapped accurately can save time, prevent disputes, and facilitate smooth property dealings. Stay informed and always rely on official sources to obtain authentic and up-to-date land records, empowering you to make well-informed decisions regarding land and property in Kundrathur.

Kundrathur Map with Survey Number: A Comprehensive Guide for Buyers, Investors, and Landowners

When exploring land or real estate opportunities in Chennai and its suburbs, the term Kundrathur map with survey number frequently arises. This crucial document and visual tool serve as the backbone for accurate land identification, ownership verification, and legal due diligence. Whether you are a prospective buyer, an investor, or a landowner, understanding how the Kundrathur map with survey number works can significantly streamline your property transactions and protect your interests.

What Is a Kundrathur Map with Survey Number?

A Kundrathur map with survey number is a detailed diagram that illustrates land parcels within the Kundrathur area, along with their respective survey numbers. These maps are prepared and maintained by the Tamil Nadu Revenue Department and are used for official records, land registration, and legal purposes.

Key Components of the Map

- Survey Number: Unique identifier assigned to each land parcel.
- Boundaries: Clearly demarcated borders of land plots.
- Dimensions: Measurements of each land parcel (length, width, area).
- Land Use Details: Classification such as residential, commercial, agricultural, etc.
- Surrounding Landmarks: Roads, water bodies, temples, or other notable features.

Understanding these components helps stakeholders to precisely locate and verify land parcels in Kundrathur.

Importance of the Kundrathur Map with Survey Number

The map with survey numbers plays a vital role in several aspects of land management and

transactions:

- Legal Verification
 - Confirms ownership and title deeds.
 - Ensures the land parcel matches government records.
 - Helps identify boundary disputes and encroachments.
- Property Identification
 - Facilitates accurate location of land parcels.
 - Prevents fraud by verifying survey numbers before purchase.
 - Assists in planning construction or development activities.
- Land Registration and Sale
 - Required during registration of property.
 - Ensures transparency and legal compliance.
 - Simplifies transfer of ownership.
- Government Planning and Development
 - Used for urban planning, zoning, and infrastructure development.
 - Helps in assessing land valuation and taxation.

How to Access a Kundrathur Map with Survey Number

Getting the map with survey number involves a few straightforward steps:

Step-by-Step Guide

- Visit the Revenue Department Office or Web Portal

- Tamil Nadu's Directorate of Land Records (TNRD) provides online access.
- The official website is <https://tnreginet.gov.in>.

- Register or Log In

- Create an account or login if you already have credentials.

- Select Land Records or Map Services

- Choose the appropriate option for land details or map access.

- Enter Details

- Input the district (Chennai), taluk (Kundrathur), and survey number.
- You may also need to specify the village or local area.

- View or Download Map

- The system displays the detailed map with the survey number.
- You can view, save, or print the map for your records.

Alternative Methods

- Visit the Taluk Office: For physical copies or assistance.
- Engage a Land Surveyor: To get professional, detailed maps and verification.

Interpreting the Kundrathur Map with Survey Number

Understanding the map's details ensures you make informed decisions:

Key Aspects to Examine

- Parcel Boundaries: Confirm that the boundaries align with your expectations.
- Survey Number: Cross-verify with your documents.
- Land Area: Check the size and shape of the plot.
- Adjacent Landmarks: Note nearby roads, water bodies, or structures.
- Land Use Classification: Understand permissible activities and restrictions.

Tips for Accurate Interpretation

- Cross-reference the survey number with official land records.
- Use satellite imagery for visual confirmation.
- Consult a professional surveyor for complex cases.

Common Challenges and How to Address Them

While maps and survey numbers are invaluable, some common issues may arise:

- Outdated Maps
 - Maps may not reflect recent boundary changes.
 - Solution: Obtain the latest records from the revenue department.
- Discrepancies in Boundaries
 - Boundaries on the map may differ from physical markers.
 - Solution: Conduct a physical survey or hire a professional.
- Missing or Incorrect Survey Numbers
 - Errors can occur during record keeping.
 - Solution: Verify with multiple sources or official records.
- Encroachments or Disputes

- Overlapping claims or unauthorized construction.
- Solution: Legal consultation and dispute resolution mechanisms.

Why Accurate Map and Survey Number Verification Matters

Ensuring you have the correct Kundrathur map with survey number is essential for:

- Legal Peace of Mind: Avoiding future disputes.
- Proper Valuation: Accurate land assessment.
- Smooth Transactions: Quick and hassle-free buying/selling processes.
- Development Planning: Ensuring compliance with local regulations.

Additional Resources and Professional Assistance

- Land Surveyors: For precise measurements and boundary clarification.
- Legal Experts: For due diligence and title verification.
- Real Estate Agents: For guidance on property transactions.
- Government Offices: For official records and dispute resolution.

Conclusion

Understanding the Kundrathur map with survey number is fundamental for anyone involved in land dealings within this thriving suburb of Chennai. It ensures transparency, legal compliance, and peace of mind, whether you are purchasing a new property, investing in land, or managing existing holdings. By leveraging official resources, seeking professional guidance, and staying informed about local land records, you can navigate the complexities of land ownership with confidence.

Always remember: a detailed, accurate map combined with verified survey numbers is your best safeguard in the dynamic landscape of real estate in Kundrathur.

Question What is the significance of the survey number on the Kundrathur map? The survey number uniquely identifies a specific parcel of land on the Kundrathur map, aiding in accurate property identification and record keeping. **Answer** How can I access the Kundrathur map with survey numbers online? You can access the Kundrathur map with survey numbers through the official Tamil Nadu land records portal or local government GIS websites that provide detailed land information. Why is it important to refer to the survey number when buying land in Kundrathur? Referring to the survey number ensures precise identification of the land, helps verify ownership, and prevents disputes or legal issues related to property boundaries. How do I find the survey number for a property in Kundrathur? You can find the survey number by visiting the local land

registry office, checking official land records, or using online land record portals with property details. Are there any recent updates to the Kundrathur map with survey numbers? Yes, recent updates are periodically made to reflect boundary adjustments, new surveys, or government land reforms, and these can be accessed through official land record portals. Can I use the Kundrathur map with survey numbers for legal purposes? Yes, the map with survey numbers is a vital document for legal transactions, boundary disputes, and verifying land ownership in Kundrathur. What tools are available to view the Kundrathur map with survey numbers? Various GIS-based tools, government land record websites, and mobile apps provide interactive maps with survey numbers for detailed land analysis in Kundrathur. How accurate is the Kundrathur map with survey numbers? The map is generally accurate as per official land records, but for legal purposes, a recent survey report or official document should be referred to for precise boundaries. Who can I contact for assistance with the Kundrathur map and survey numbers? You can contact the local land registry office, revenue department, or licensed surveyors for assistance with the Kundrathur map and survey number-related inquiries.

Related keywords: Kundrathur map, survey number, land survey Kundrathur, property map Kundrathur, land records Kundrathur, survey plan Kundrathur, cadastral map Kundrathur, land registration Kundrathur, property details Kundrathur, land ownership Kundrathur

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