



## Evidence(s)

### THE-Impact Ranking



Institute : Trident Academy Of Technology  
Country : India  
Web Address : <https://tat.ac.in/>

## SDG11: SUSTAINABLE CITIES & COMMUNITIES

### 11.4.9 -Building on brownfield sites

Trident Academy of Technology (TAT) recognizes the importance of sustainable development and is committed to building on brownfield sites as part of its expansion strategy. Utilizing previously developed land helps revitalize communities, reduce urban sprawl, and promote environmental sustainability. Here are the key aspects of TAT's approach to building on brownfield sites:

#### 1. Environmental Remediation

Before construction begins, TAT prioritizes environmental assessments to identify contamination and ecological impacts. The academy collaborates with environmental experts to remediate these sites, ensuring that any pollutants are safely managed and removed.

#### 2. Sustainable Redevelopment

TAT is committed to transforming brownfield sites into functional spaces that benefit the community. This includes designing buildings that are not only environmentally friendly but also serve educational and community purposes, such as research centers or innovation hubs.

#### 3. Community Engagement

The academy actively engages with local communities during the planning process. By involving residents and stakeholders, TAT ensures that redevelopment projects meet local needs and contribute positively to the community's quality of life.

#### 4. Smart Growth Principles

Building on brownfield sites aligns with smart growth principles, promoting urban density, mixed-use developments, and public transportation accessibility. This helps reduce reliance on cars and encourages walking and cycling, fostering a healthier environment.

#### 5. Preservation of Green Spaces

TAT emphasizes the preservation of existing green spaces and the creation of new ones within brownfield redevelopment plans. Incorporating parks, gardens, and green roofs enhances biodiversity and improves the aesthetic value of the area.

#### 6. Infrastructure Improvements

Redeveloping brownfield sites often requires upgrading existing infrastructure, including utilities and transportation networks. TAT works with local authorities to ensure that these improvements support both the academy and the surrounding community.

#### 7. Economic Development

By investing in brownfield redevelopment, TAT contributes to local economic growth. The revitalization of these areas can attract businesses, create jobs, and enhance property values, benefiting the wider community.

#### 8. Sustainable Construction Practices

The academy adopts sustainable construction methods for projects on brownfield sites, utilizing recycled materials, energy-efficient designs, and minimizing waste during the building process.

#### 9. Monitoring and Maintenance

After construction, TAT continues to monitor the environmental health of the site and its surroundings to ensure that redevelopment efforts remain sustainable and do not negatively impact the local ecosystem.



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### SDG11: SUSTAINABLE CITIES & COMMUNITIES

#### 10. Education and Research Opportunities

TAT leverages its brownfield redevelopment projects for educational purposes, offering students hands-on learning experiences in environmental science, urban planning, and sustainability practices.

<https://tat.ac.in/best-practices/trident-center-for-sustainability-research-tcsr/>



Image-1-Proposed site for new building

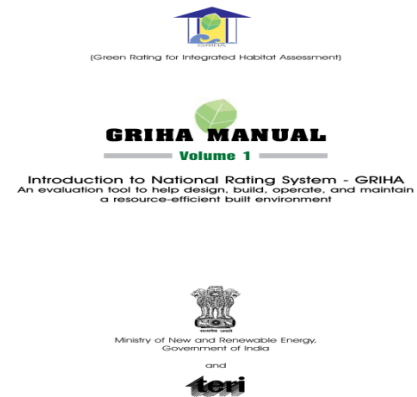


Image-2- GRIHA Manual

Trident Academy of Technology is committed to sustainable development and is upgrading a 12000sqft new building in alignment with the GRIHA (Green Rating for Integrated Habitat Assessment) framework. GRIHA is a green building certification system that promotes energy-efficient, resource-optimized, and sustainable infrastructure. By adhering to GRIHA standards, the new building aims to reduce environmental impact through efficient use of energy, water conservation, waste management, and improved air quality. This initiative reflects our dedication to creating an eco-friendly campus that supports the well-being of students and staff while minimizing our ecological footprint.

#### Conclusion

By focusing on brownfield redevelopment, Trident Academy of Technology not only addresses land use challenges but also exemplifies a commitment to sustainable development, community enhancement, and environmental stewardship. This approach allows TAT to create a vibrant and responsible campus that contributes positively to the surrounding area.