

# CONTENTS

## TECHNICAL SESSION I & II :

### DEVELOPMENT AND SUSTAINABILITY OF TOWNSHIPS

1. The Urban Debate-Whether Greenfields or Brownfields..... 1  
A.K. Jain
2. Planning for Sustainable New Cities in India..... 9  
Jit Kumar Gupta
3. Environmental Sustainability for Green Field Township Projects..... 16  
Dr. Sunil Kumar Chaudhary
4. Greenfield and Brownfield Township Development..... 24  
Dr. K.M. Soni
5. Planning, Design and Construction for Development Greenfield Townships in India:  
A Sustainable Approach..... 31  
R.B. Gautam
6. Sustainability and Urbanization in Ecologically Sensitiveregion - Case Study Leh..... 40  
Anish Kundu, Dr. Gursharan Jeet Kaur & Anish Mahala
7. Greenfield Smart Cities Shaping the Future of India..... 49  
Dr. Ponni M. Concessao & Dr. Oscar Concessao
8. Eco-Friendly Greenfield Development..... 55  
Usha Batra
9. Sustainability of Townships: Solutions for Pure Air, Water, Energy, Sewage, Garbage,  
Traffic & Environment..... 64  
K. T. Gurumukhi
10. Infrastructural / Ecological Balance: Key to Sustainability of Greenfield Township..... 71  
Naveen Kumar & Ravikant Sharma
11. Holistic Greenfield Township Planning Towards a Holistic  
Approach in the Wake of Sustainability-Case Studies..... 77  
Charanjit Singh Shah & Gurpreet Singh Shah
12. Environmental Sustainability of Smart Townships/Cities in India..... 83  
Dr. J. Bhattacharjee
13. An Approach Towards Sustainability Development of Greenfield Township..... 88  
T. R. Dakshayani & S. Guru Narayanan

14. An Impact Analysis of Modern Greenfield Townships –Conflicts and Solutions Compared to the Traditional Brownfield Townships.....	92
Dr. Mutyala R. Prakash & Gurinder Kaur	

**TECHNICAL SESSION III & IV :**

**LAND ISSUES, FINANCING AND MISCELLANEOUS**

15. Development of New Greenfield Townships in Hilly Areas.....	99
Dr. Pawan Kumar	
16. Assessing Market Value of Land for Greenfield Townships – The Problems.....	105
Ingawale Nikhil Sanjiv, Gowtham V & K. N. Narasimha Prasad	
17. Arrangement of Financing for the Development of New Greenfield Townships Projects Under the Condition of Public-Private Partnership.....	111
Mohammad Yousuf , Mohammad Sediq & Dr. Jayesh Kumar Pitroda	
18. Sustainable Energy Solutions for Building Industry- Window Films.....	117
Dr. Santosh Hire	
19. Sustainable Planning of Greenfield Township Solution for Traffic,Solid Waste, Pure Water and Energy.....	122
Dr. Indrasen Singh & Mrinal Pandey	
20. Models of Development of Green Field Cities.....	128
Nazera Mohiuddin	
21. Development of Integrated Greenfield Township within Manesar-Bawal Investment Region: A Holistic Approach.....	135
Narender Singh	
22. Self-Sustainable Townships, Smart and Intelligent Urban Centres.....	143
Dr. Sunil Kumar Chaudhary	
23. A Comparative Study of Global & Indian Parameters Used in Planning of Greenfield Townships.....	149
Saurabh Gupta & Syam Nair	
24. Sustainable Parking Space in Built Environment.....	158
Vennamaneni Sruthi, K. R. Ramana & A. Nookapathi Raju	
25. Waste Disposal in High Rise Buildings – Adoption of Chutes to Enhance the Sustainability of the Built Environment.....	165
K. R. Ramana, & Sahith Rachamalla	

26. Surviving the Century: Facing Climate Chaos and Other Global Challenges in Greenfield Township.....	176
Gaurishankar Dubey	
27. Study and Analysis of 'Adani Shantigram', Ahmedabad and Emerging Port City -Dholera Greenfield Smart City Townships in Gujarat.....	181
Purushottam P. Doijode	
28. Development of New Greenfield Townships.....	188
O.P Gupta, VSM, Vijay Gupta & Chandan Gupta	