

CONTENTS

TECHNICAL SESSION I : INNOVATIVE BUILDING DESIGNS

1.	State-of-The-Art Building Technology	1
	<i>Dr. Oscar & Ponni Concessao</i>	
2..	Tension Structures to Cover Large Open Spaces	7
	<i>S. Majumdar</i>	
3.	Innovative Railway Stations in Navi Mumbai: Cidco's Efforts	10
	<i>Vidya Gotmare</i>	
4.	Floating and Moving Houses	17
	<i>Dr. K M Soni & Piyush Soni</i>	
5.	Biomimetics: Design by Nature	23
	<i>A. C. Patel & Rohit</i>	
6.	Suitability of E-tendering in Current Scenario for Construction Industry	31
	<i>Sameer Jain, Keerthikumar, Vishnuvardhan M & Harsh Mehta S</i>	
7.	U-PVC Doors and Windows - Training Centre to	42
	Enable Zero Defect Production <i>Raju Banerjee & Ashim Chugh</i>	
8.	Practical Aspects of Earthquake Resistant Design & Construction of Buildings	48
	Considering the Multi-Hazard Vulnerability of Bihar <i>Dukhi Sah</i>	
9.	Seismic Design of Elevated Water Tank by Spring Mass Model.....	61
	<i>Manmohan Kumar & Ram Babu Prasad</i>	
10.	Innovative Earthquake Resistant Technologies	71
	<i>Dr. Pradeep Kumar & Kalpana Devi</i>	
11.	Seismic Evaluation of Beam-Column Joints Using GFRP	79
	Bars in Multi-Storey Building <i>Popat Radhika J & Prof. Rajul K. Gajjar</i>	
12.	Bathrooms: Yesterday & Today	85
	<i>Rachna</i>	

13. Utility and Design of Pre-Engineered Structures	93
<i>Alvin Harison, Vikas Srivastava & P.K. Mehta</i>	

TECHNICAL SESSION II : GREEN BUILDING CONCEPT

14. Griha, Svagriha and Green Buildings	97
<i>Mili Majumdar & Apoorv Vij</i>	
15. Design Matrix and Resources for Green Building.....	102
<i>A.K. Jain</i>	
16. A Paradigm of Self Sufficiency - Net Zero Building	113
<i>Deependra Prashad</i>	
17. Innovative Building Techniques and Technologies	119
<i>Dr. Mutyala R Prakash & Mendu Chakrapani</i>	
18. Green Rehabilitation of Building-Two Case Studies	127
<i>Minakshi Chaudhary & Dr. Sunil Kumar Chaudhary</i>	
19. State-of-the-Art Building Technology Green Buildings.....	135
<i>S.P. Shrivastava</i>	
20. Application of Value Engineering in Building Design &	144
Construction & its Draw Backs	
<i>O.P. Gupta, VSM, Vijay Gupta & Vaibhav Gupta</i>	
21. Compressive Strength And Workability Characteristics of Concrete using	151
Fly-Ash and its Correlation with the Microstructural Properties	
<i>K.Vysakh, Rahul Singh & T. Visalakshi</i>	
22. Green Building Materials for Sustainable Development in India	159
<i>J. Bhattacharjee</i>	
23. A Systematic Approach to Geo-polymer Concrete	165
<i>Dr. Sunil Kumar Chaudhary</i>	

TECHNICAL SESSION III : INNOVATIVE TECHNOLOGIES/MACHINERIES & CASE STUDIES

24. Concrete Canvas: A Revolutionary Material in Construction Industry	171
<i>Gurudev Singh</i>	

25.	Modern Equipment for Modern Roads/Pavements.....	178
	<i>Brig. Sandeep Rawat & RK Singh</i>	
26.	Instant Buildings : A Case study of Instacon, Mohali	188
	<i>Deepak Sundrani</i>	
27.	Surface-Engineered Hollow-Core Interlocking Blocks: An	193
	Environment Conscious Sustainable Building Product/Technology	
	<i>Anil Laul, Siddharth R. Malur & Tanya Pahwa</i>	
28.	Biodiversity Initiatives by DDA	203
	<i>Savita Bhandari</i>	
29.	Retrofitting of Old Foundations: A Review of Available Techniques	210
	<i>Dr. Pradipta Chakraborty</i>	
30.	Dissemination of Concepts of New Materials and Innovative.....	217
	Technology for Rapid Socio Economic Growth of India	
	<i>B. K. Dam</i>	
31.	Adopting Industrialized Building System (IBS) in Indian Housing	224
	System and Sub-systems	
	<i>Uttam K. Roy, Dr. Madhumita Roy & Prof. Subir Saha</i>	
32.	Sustainable Smart Systems in Real Estate.....	233
	<i>Shah M.N., Malik S., Desai R.R. & Garg A</i>	
33.	High Strength Concrete - Concrete of Tomorrow	242
	<i>Vinay Kumar & Dr. K. M. Soni</i>	
34.	Emerging Trends and Innovation in Concrete and	248
	Steel as Versatile Building Materials	
	<i>R. B. Gautam</i>	
35.	Total Quality Management in Indian Construction Projects.....	256
	<i>Kumar Lal Babu & Rajeev Kumar</i>	