

CONTENTS

TECHNICAL SESSION 1 & II : SKILL UPGRADATION

1. Essential Parameters for Upgradation of Level of Performance of 1
Engineers and Technicians for Successful Implementation of
Building Projects
B. K. Dam
2. Training, Skill Upgradation and Competence 5
Development - A Holistic Approach
Suresh Chandra Pattanaik
3. Training Model for Creating High Performance in 12
Construction Workers at the Bottom of the Pyramid
Col. N. B. Saxena (Retd.)
4. Training, Skill Upgradation and Competence Development 17
in Building Industry
Dr. C. K. Chugh
5. The Multi-skilled Construction Worker - A Survey of 23
The Contractor's Perception
Prof. K. R. Ramana
6. Skill Upgradation and Training for an Effective Environmental, 33
Health and Safety Performance : URS Experiences and Innovations
Shakti Prakash & Col. C. P. Gupta
7. Significance of Quality and Upgradation of Skill in Built Environment 41
Shobit Uppal & Amarjeet Singh Ahluwalia
8. Training of Building Professionals in Construction Industry 47
D. S. Sachdev
9. Skill Development in Construction Sector 50
Raj Pal Arora
10. Indian Construction Industry - Training Needs and Issues 54
Dr. Vanita Ahuja & Savita Kumari

11.	A Critical Review of Training , Skill Upgradation and Competence Development in Building Industry <i>Dr. Mutyala R. Prakash</i>	61
12.	Training, Skill Upgradation and Competence Development of Workers and Professionals <i>R. B. Gautam</i>	67
13.	Issues in Building Construction Skill Assessment and Certification <i>Dr. A. L. Agarwal & B. L. Rajput</i>	73
14.	Training and Upgradation of Supervisors: An Overview <i>Vinod Kumar Jatau</i>	79
15.	Skilled Manpower: Key to Quality in Infrastructure Development <i>Gurudev Singh & Col. P. K. Mohanty</i>	82
16.	Analysing Latest Training Options for Workmen in Construction Sector <i>Purushottam P. Doijode</i>	88
17.	Training and Skill Upgradation of Construction Professionals and Workforce: Need, Objective and Areas of Concern <i>Vishal Kumar</i>	94
18.	Need for Skill Development for Construction Workers in India <i>O. P. GuptaVSM, Rajeev Jain, Vijay Gupta & Vaibhav Gupta</i>	100
19.	Train the Trainer Initiative of the ACI India Chapter - A Learning Experience <i>Dr. S. K. Manjrekar & Mohan A. Jacob</i>	106

TECHNICAL SESSION III & IV : COMPETENCE DEVELOPMENT

20.	Development of Strategy for Competence Development due to Introduction of New Technology <i>Arun Kumar</i>	111
21.	PPP - A Necessity of Future for Skill Development of Civil Engineers <i>Mahesh Kumar</i>	117

22.	Educating The 21st Century Building Professionals	122
	<i>Dr. Oscar Concessao & Dr. Ponni M. Concessao</i>	
23.	Basic Skills Required on Coordination of Services Layout.....	129
	at Construction Sites	
	<i>J. Vengadesan</i>	
24.	Enhancing Tile Laying Skills of Tilers Through Training.....	133
	<i>Satendra Gautam</i>	
25.	Training, Skill Upgradation and Competence Development	141
	in Building Industry	
	<i>K. K. Kapila</i>	
26.	Skill Training of Workers for Fabricating Aluminum Doors,	146
	Windows, Structural Glazing, etc.	
	<i>Deepak Sundrani</i>	
27.	Building Automation System : A way to Sustainable Design Practice.....	151
	<i>Aman Katoch</i>	
28.	Training and Awareness of Seismic Retrofitting	158
	<i>Dr. K. M. Soni</i>	
29.	Good Practices in Painting and Passive Heating/Cooling Technology	164
	<i>Rajiv Kaul, Rishma Kaur & Nirmalay Kumar</i>	
30.	Sustainable Facade: The Third Skin.....	169
	<i>Aparna Parate & Neha Kolhe</i>	
31.	Capacity Building and Training Initiatives for Earthquake Resilient Buildings	178
	<i>Dr. Mamata R. Singh & Rajesh Kumar Singh</i>	
32.	Initiatives Required for Training, Skill Upgradation and Competence.....	184
	Development in Building Industry	
	<i>Abhishek Ratan Sharma</i>	
33.	Competence Development: Indian Construction Industry.....	188
	<i>Shri R. N. Yadav</i>	

34.	Competencies Expected by Construction Industry from Technical Manpower in Civil Engineering <i>Suresh K. Gupta, Dr. R. K. Khitoliya & Mahesh Kumar</i>	193
35.	M.R.T.S. Project of Delhi - Gurgaon Metro Corridor <i>Dr. Pradeep Kumar & Rashmi Ashtt</i>	198
36.	Vertical Green Urbanism: A Collaboration with Ecology <i>Kanika Singh & Tina Pujara</i>	204
37.	Fibre Reinforced Concrete - Onsite Application Training and Inspection <i>Rajiv Gauri</i>	213
38.	Awareness and Training for Skill Upgradation in Building Maintenance <i>Dr. Pawan Kumar</i>	217
39.	Efficiency And Strategic Troubleshooting in Concrete Construction <i>Rahul Roy, Siddhant Mathur & Gaurav Goyal</i>	222

Special Presentation

40.	Novel Paradigms of Professional Competence <i>Dr. B. S. K. Naidu</i>	230
-----	---	-----