

**LISTING OF PAPERS PRESENTED
IN VARIOUS SYMPOSIA OF
PAKISTAN ENGINEERING CONGRESS**

<u>VOLUME / SR. NO.</u>	<u>TITLE OF SYMPOSIUM / PAPER</u>	<u>NAME OF AUTHOR</u>
Volume I	HOUSING PROBLEMS OF WEST PAKISTAN FEBRUARY, 1957	
1.	Introduction to Housing Problems	S. A. Rahim
2.	Social Aspects of Housing	M. H. Shah
3.	Some Financial and Administrative Aspects of Housing	Khan Bashir Ahmad Khan
4.	Slum Clearance	Irshad Ahmad
5.	Urban Development in West Pakistan	Mazhar Munir
6.	Aspects of Rural Housing	Muhammad Afzal Khan
7.	Building Materials	A. A. Jamal-ud-Din
8.	Low Cost Houses	Ghias-ud-Din Habib
9.	Essential Services and Development Cost	Mukhtar Ahmad
10.	Principles of Architectural Designing	Naseer-ud-Din Murat Khan
Volume II	FLOODS IN WEST PAKISTAN FEBRUARY, 1958	
11.	Causes of Floods in the Indus Basin	S. N. Naqvi
12.	Forecasting	Wirasat Ullah Khan
13.	Effects of Floods and Remedial Measures Suggested	Mian Alim-ud-Din
14.	Effect of Floods on the Economy of the Country	Abdul Aziz Anwar
15.	Effect of Floods on Communications: a) Roads b) Railways	A. A. Jamal-ud-Din & M. M. Zubair
16.	Prevention and Control of Floods	Mian Muzaffar Ahmad
17.	Soil Conservation – A Measure of Flood Control	H. J. Asar
18.	Disposal of Floods	Sardar Allah Bakhsh
19.	Forestry in Relation to Flood Preservation and Control in West Pakistan	Muhammad Ihsan-ur-Rehman Khan
20.	Impact of Floods on Water Resource Development	I. A. Zafar
21.	Floods in the Arid Zones of West Pakistan	G. A. N. Starmans

- Volume III** **WATER-LOGGING AND SALINITY IN WEST PAKISTAN**
FEBRUARY, 1959
22. Tile Drainage M. Saeed Minhas
23. A Correlation of Resistivity Variations in Saline and Non-Saline Water Bearing Formations R. A. Shamsi
24. Application of Electrical Resistivity Method to Investigate Sub-Surface Geology with Special Reference to Hafizabad Reclamation Area Maqsood Ali Shah Gilani
25. A New Conception on the Water-Logging and Salinity Problem of Rechna Doab Dr. Nazir Ahmad, Dewan Ali and Afaq Ahmad
26. Physiographic History of Land Formation in West Pakistan Syed N. A. Z Hussaini
27. Economic Effects of Water-Logging and Salinity in West Pakistan Aziz A. Anwar
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- Volume IV** **ENGINEERING EDUCATION IN PAKISTAN**
FEBRUARY, 1960
28. Ideals for Engineering Education in Pakistan Dr. Mubashir Hasan
29. Education and Training in Engineering Colleges Dr. Akmal Hussain
30. Proposal for a Pakistan College of Mines Robert L. Burns
31. The Place of Workshop Practice in Engineering Education William Arthur Mellors
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- Volume V** **PLANNING AND EXECUTION OF ENGINEERING PROJECTS IN PAKISTAN**
MARCH, 1961
32. Role of Research in Engineering Projects Dr. Mushtaq Ahmad
33. Design Office-Practice Mohi-ud-Din Khan
34. Engineering for Modern Contracts and Construction Daren G. Thiel
35. Mechanization of Construction Operations Mian Masud Ahmad
36. Consulting Engineering Practice in Pakistan I. A. Zafar
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- Volume VI** **SEDIMENTATION PROBLEMS AS A RESULT OF INDUS BASIN WORKS**
APRIL, 1962
37. The Sedimentation of Mangla Reservoir Binnie, Deacon and Gourley

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| 38. | The Sediment Problems on the Indus at Tarbela | John B. Drisko |
| 39. | Silt Trap Efficiency of Reservoirs with Special Reference of Tarbela and Mangla Dams | Dr. Nazir Ahmad |
| 40. | Reduction of Mangla Reservoir Sedimentation by Watershed Management | James C. Ringenoldus |
| 41. | Silt Trap Efficiency of Vegetative Cover in the Catchment Area | Amir Ahmad Khan |
| 42. | Sediment Problems in the Indus Basin Part-II Sedimentation in River Channels and Floodways | S. S. Kirmani |
| 43. | Changes in River Regime as a Result of Link Canals | R. K. Lewis |
| 44. | Some Salient Features of Silt Ejector in a Fluvial Channel Based on Hydraulic Model Studies | Mushtaq Ahmad and Muhammad Ali |
| 45. | A Review of Sediment Problems and Possible Solutions | V. A. Koelzer and Marcel Bitoun |
| 46. | The Present and Future of Silt Excluding Devices | Mohi-ud-Din Khan |
| 47. | Sampling and Analysis Technique for Suspended Sediment | M. M. Sadiq |

**Volume VII WATER-LOGGING AND SALINITY IN WEST PAKISTAN
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| 48. | History and Magnitude of Water-logging and Salinity Problems in Former Punjab, West Pakistan | M. A. Lateef and R. A. Shamsi |
| 49. | Salinity and Groundwater Conditions in the Lower Indus Plains, Sukkur-Guddu Right Bank and Khairpur-Lower Indus Project | T. N. Jewitt |
| 50. | Water-Logging and Salinity as Factors Limiting Agricultural Production in West Pakistan | Muhammad Hussain and Nur-ud-Din Ahmad |
| 51. | Sodium Hazard of Punjab Groundwaters | C. A. Bower and M. Maasland |
| 52. | Results of Geologic and Groundwater Investigations in the Punjab Plain, West Pakistan | Z. U. Kidwai, W. V. Swarzenski |
| 53. | The Programme of Investigations in the Former Sindh | A. P. S. Forbes, G. R. Hoffman and Sir M. MacDonald |
| 54. | Economic Investigation as related to Drainage with Special Reference to Khairpur | P. E. Naylor |
| 55. | WAPDA Programme of Water-Logging and Salinity Control for West Pakistan | M. Badr-ud-Din |
| 56. | Development of Groundwater in the Indus Plains | M. Maasland, J. E. Priest and M. S. Malik |
| 57. | Conjunctive Use of Surface Water and Groundwater Supplies in the Principal Canal | Charles S. Hazen |

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	Irrigated Areas of West Pakistan	
58.	Review of Reclamation Activities and Methods and Suggested Measures for Water-logging and Salinity Control	Muhammad Hussain and H. A. Nishat
59.	Efficacy of and Dependence on Tubewells as a means of Providing Additional Supply Necessary for Controlling Salinity and Reclaiming Waterlogged Areas	Sarwar Jan
60.	A Study of the Rise of Groundwater and its Salinity in the Irrigated Areas of Indus Plains	Dr. Nazir Ahmad
61.	Performance of Salinity Control and Reclamation Project No. 1 Rechna Doab	Mian Shamim Ahmad, H. S. Zaidi and Badr-ud-Din
Volume VIII	CONSULTING AND CONTRACTING PRACTICES IN PAKISTAN	
	MARCH, 1965	
62.	Consulting and Contracting Practices in Pakistan	B. M. Abbas
63.	Consulting and Contracting Practices in Pakistan	A. V. Karpov
64.	Engineering Resources of Pakistan	A. A. Abidi
65.	Consulting and Contracting Practices in Pakistan	G. H. Vaughan Lee
66.	Considerations in the Establishment of a Pakistan Association of Consulting Engineers	G. T. Macarthy
67.	Consulting Services	Khawaja Azeem-ud-Din
68.	The Role of Private Consulting Firms in Modern Water Resources Development	E-Montford Fucik
69.	Administration of Large Contracts	J. R. Gwyther
70.	Construction Contracts and Law	S. M. R. Abidi
71.	Contracting Practice in Pakistan	Mangla Dam Contractors
72.	Consulting and Contracting Practices in Pakistan	Brig. Ahmad Khaleeli
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	OCTOBER, 1966	
73.	Importance of Nuclear Power Generation in the Developing Economy of Pakistan	Masnoon S. Ahmad
74.	Nuclear Engineering Research for Development of Nuclear Power in Pakistan	Muhammad Yusuf
75.	Role of Research in Railways of Developing Countries	C. A. Vali
76.	Development of Building Research in West Pakistan	Mian Muhammad Hanif
77.	Role of Research in the Control and Use of	Mushtaq Ahmad

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| 78. | Hydraulic Research in West Pakistan | Khalid Mahmood |
| 79. | Hydraulic Model Research for Indus Basin Project | C. Van Beesten |
| 80. | Research on Water and Land for Survival | Dr. Nazir Ahmad |
| 81. | Water Conservation Studies for West Pakistan | Dr. Nazir Ahmad |
| 82. | Impact of Irrigation Research on the Developing Economy of West Pakistan | Muhammad Hussain & Nur-ud-Din Ahmad |

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| 83. | The Technique of Steam Curing of Concrete | Mian Saeed Ahmad |
| 84. | The New Challenge in Bridge Building | Abdus Salam |
| 85. | Some Design Aspects of Thatta Shujawal Bridge on the Indus | Mohi-ud-Din Khan |
| 86. | Foundations for Thatta Shujawal Road Bridge on the Indus | A. L. Quadri and Mohsin H. Shaikh |
| 87. | Correction Factor for Evaluation of Discharge by Manning Formula in Bridge Design | Fateh Ullah Khan |
| 88. | Partial Prestressing for Highway Bridges | Dr. Jorg Peter |

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| 89. | Planning the Development of Pakistan's Water Resources | Sarfraz Khan Malik |
| 90. | Planning Irrigation Requirements | Sh. Muhammad Afzal |
| 91. | Drainable Surplus Problems in Irrigated Areas | P. I. Druty |
| 92. | Study of Water-Logging Problems of West Pakistan with Electric Analogue Computers | Maqsood Ali Shah Gilani |
| 93. | The Economics of Land Reclamation in the Sindh | C. E. Finney |
| 94. | Some Problems of Groundwater Resources of West Pakistan | Dr. Nazir Ahmad |

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| 95. | Floods and Cyclones in East Pakistan | B. M. Abbas |
| 96. | Engineering Consultancy and Contractual Services in Pakistan | Muhammad Omar |
| 97. | The Making of an Engineer | Manzur Ahmad |

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98.	Development of Consultants and Contracting Professions in Pakistan	I. A. Zafar
99.	The Participation of Engineers in National Development	Imtiaz Ali Qazilbash
100.	Of Engineers and Accounts	Riyaz H. Bokhari
101.	Training Needs of Engineering Profession	S. M. Rafi Ahmad
102.	An Engineer in Search of an Image	Sh. Nisarul Haq
Volume XIII	PLANNING FOR NATIONAL OBJECTIVES 1972	
103.	Planning of Highways for National Objectives	Inam Bari Pervaize
104.	Streamlining the Public Services for the Tasks of National Objectives	M. Iftikhar-ud-Din
105.	Organizing Earthmoving and Construction Equipment for Achieving National Objectives	S. Nisar ul Haque
106.	The Challenge of Power Supply in People's Era	Mian Fazal Ahmad
107.	Manpower Planning	K. M. Butt
108.	Evaluation of Projects ; An Administrative Missing Link	Masood Hassan
109.	People's Works Programme, Planning and Development at Local Level	Abdul Latif Mirza
110.	Development of Steel Industry in Pakistan	Fida Rahim
111.	Do's and Don'ts in Infra-structural Planning	Sarfraz Khan Malik
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112	Role of Pakistan's Natural Gas Industry Towards Self Reliance in the Energy Economy	A. Samad
113	Supply and Demand of Chemical Fertilizers	Dr. W. M. Butt
114	Energy Resources of Pakistan	M. Masih-ud-Din
115	Phosphate Deposits of Pakistan	S. Tayyab Ali Shah
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116	History of Tarbela from Inception to Substantial Completion	Riaz Nazir Tarar
117	Seepage Control at Tarbela Dam through Upstream Blanket	Amjad M. Agha

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118	A Study in Dam-Break Flood	Sh. Abdul Rahman and Khalid Javed
119	Modern Techniques of Vigilance and Repairs on Large Dam	Ch. Altaf Hussain
120	Economic Effect of Tarbela Mishap	Irshad Ahmad
121	Hydraulic Model Studies for Tarbela Dam	Mushtaq Ahmad and Ch. Muhammad Ali
122	Tarbela Dam Project	Sheikh Ahmad Hassan
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123.	Aspects of Low Cost Urban Construction in Pakistan	Z. Mian, K. Mahmood and S. T. Wasti
124.	Self-Reliance in Low Cost Rural Development	N. M. Awan
125.	Economy in Low Cost Housing	Muhammad Sharif Ahmad
126.	A Study of the strength of Effect of Sand on the Compressive Stabilized Soil Blocks	Ahmad Mukhtar Khan
127.	Primary School Buildings Requirements and Design	K. Mahmood and S. Khalifa
128.	Economical Design of Masjid Dome	Sh. Wajeeh-ud-Din, Bakhtiar Ali and Muhammad Azim
129.	Towards Low Cost Buildings	Kennerth G. Old
130.	Determining Minimum Cost Cross - Sections for Lined Channels	Tom Trout
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131.	Essentiality of Project Management in Developing Economics	Khalid Mohtadullah
132.	Some Management Aspects of SCARP-I	Dr. N.M. Awan
133.	Planning of Flood Protection Works	Muhammad Aslam Chohan
134.	Revised Action Programme for Irrigated Agriculture in Pakistan	M. Badr-ud-Din
135.	SCARP Planning in Northern Indus Plains	Ch. Ata-ur-Rehman
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136.	Strategies of Rural Development in Pakistan	M. S. Cheema
137.	Public Tubewells Vs. Private Tubewells	Ramiz Ahmad Mailk
138.	Enhancing Water Availability to Farmers for Achieving Higher Cropping Intensity – A New Approach	Nazar Muhammad, M. I. Shaheed and S. M. A. Zaidi
139.	Non-conventional Energy Options for Rural Electrification in Pakistan	Mushtaq Ahmad Bhatti
140.	Rural Roads in the Punjab	Rana Akhtar Ali Chohan
141.	Impact of Salinity Control and Reclamation Projects on Rural Development	Dr. N. M. Awan
142.	Sanitation and Drainage in Rural Areas of Pakistan	Rana Muhammad Saeed Ahmad Khan
143.	Drinking Water Supply Coverage to Rural Areas in Pakistan	S. M. Ashraf
144.	Farm Machinery and its Role in Development	Sikandar M. Khan
145.	Maintenance, Operation and Construction of SCARP Tubewells with Special Reference to SCARP II	Sh. Abdul Hamid Arif
146.	Electrification of Villages	Abdul Aziz Chaudhry
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147.	Energy Conservation	Sadaqat Hassan Mir
148.	Development of Thermal Power	Ch. Arshad Zaman
M 149.	Medium Term Strategy of Hydroelectric Development in Pakistan	Saeed Akhtar Niazi
150.	Mini Hydro Power Development in Pakistan	M. R. Chaudhry
151.	Energy Loss Reduction in WAPDA Power Distribution System	Daud Beg
152.	An Overview of Energy Position in Pakistan	Muhammad Irfan Akhtar
153.	Energy Conservation in Air-Conditioning	Syed Qamar Raza Naqvi
154.	Renewable Energy Options to Overcome Energy Crisis in Pakistan	Mushtaq Ahmad Bhatti
155.	Necessity of Nuclear Energy for Pakistan	Dr. Arshad Muhammad Khan
156.	Research Programme for Solar Energy	Dr. Syed Wajahat Ali
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| M 157. | Evaluation of Mortar / Concrete Mix-Ratio Analysis Method | Dr. Irshad Ahmed |
| 158. | Quality Control on Construction Material | Muhammad Afzal Bhatti |
| 159. | Material Prospection for Dams | Dr. Izhar-ul-Haq |
| 160. | Quality Control in Pakistan Industries - Present Situation | Anwar Saleem |
| 161. | Quality Control Programme in Construction of a Nuclear Facility | Shafqat Rabbani |
| 162. | Effectiveness of Pakistan Steel’s Slag in Controlling Alkali Silica | Ghulam Hussain |
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| 164. | Hydro Power Potential of Pakistan | Dr. Izhar-ul-Haq and K. F. Sheikh |
| 165. | Hydro Electric Power Projects Construction Planning and Implementation in Inaccessible Northern Areas of Pakistan | Brig. Ijaz-ud-Din Khan |
| 166. | Socio-Economic Imperatives of Hydro-Electric Development in Pakistan | Mian Fazal Ahmad |
| 167. | Micro Power Plant Programme in Pakistan | Anwar A. Junejo and Zafar Iqbal |
| 168. | Planning Strategy for Development of Hydro-Power in Pakistan | Muhammad Zakaria |
| 169. | Small Scale Power Generation in Private Sector with Special Reference to Small Hydel Power Generation | L. A. Jaffery |
| 170. | Construction Planning of Small Hydro-Power Projects Financing-Contract Packaging Project Schedule | S. M. Kirmani |
| 171. | Indigenous Development to Exploit Hydel Potential in Pakistan | Dr. M. Y. Akhtar |
| 172. | Kundal Shahi Hydel Scheme | Khalid Yamin |

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| | | R. K. Anver |
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174.	Operation and Maintenance of Canals	R. K. Anver and R. Haq
175.	Operation and Maintenance of Completed SCARPS	Hamid Ullah Khan, Syed Rehmat Ali and Muqarrab Khan
176.	Operation and Maintenance of Dams	Dr. Izhar-ul-Haq
177.	SCARP Planning, Operation and Maintenance	Nasir Ahmad
178.	Modern Telecommunications on Pakistan Railways	Khalid Qasim
179.	New Concept in Modern Signalling Maintenance Methods	Wasif Roheel
180.	Maintenance of Drainage Systems	Syed Mansoob Ali Zaidi, Haroon Shami and Muhammad Mehdi Zaidi
Volume XXIII	FLOOD MANAGEMENT IN PAKISTAN JULY, 1994	
	Key Note Address	E. I. Johri
181.	Floods in Indus Basin, Their Control and Management	Riaz-ul-Haq
182.	Management of 1992 Floods Through Mangla Reservoir	Muhammad Afzal and Abdul Ghani
183.	On the Study of 1992 Floods and its Effects on Punjab	Syed Ali Rizwan and Faiz Ahmad Chishti
184.	Role of Marginal Bunds in Flood Fighting – A Case Study of Cutting of Marginal Bunds During Floods of 1992 at Trimmu and Punjnad Head works	B. A. Shahid and A. S. Shakir
185.	Floods and Roads in Indus Basin	E. I. Johri
186.	Floods Frequency Analysis at Some Typical Discharge Measuring Site of Pakistani Rivers	Syed Ali Rizwan
187.	Flood Forecasting and Warning Problems in Pakistan	Abdul Majeed
	MANAGEMENT OF HILL TORRENTS IN PAKISTAN DECEMBER, 1995	
188.	Watershed Management in Japan	Yoichi Kishi
M 189.	Management of Kaha Hill Torrent	Syed Mansoob Ali Zaidi
190.	Problems in Disaster Prevention in Developing Countries	Masayuki Watanabe
191.	Harnessing of Hill Torrents in Pakistan: A Conceptual Analysis	Sabir Ali Bhatti, Muhammad Nasir A. Khan

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192.	Flood Management of Hill Torrents in Pakistan	Dr. A. S. Shakir, Asrar-ul-Haq and Dr. B. A. Shahid
193.	Status of Rod Kohi System Management-A Case Study	Dr. M. Shafiq, M. Z. Ikram & Muhammad Ahmad
194.	Role of Small Dams in Stream Flow Regulation	Abdul Ghaffar
195.	Potential for Efficient Utilization of Hill-Torrents for Crop Production in Dera Ghazi Khan	Munir Ahmad, Asif Ali Bhatti & Muhammad Aslam
196.	Participatory Approaches in Integrated Watershed Management	Moujahed Achouri
197.	Upper Kaha Hill Torrents Management	Muhammad Azam, Bashir Ahmad Mian
198.	Flood Management of F. P. Bund Complex	Government of Sindh I & P Department
199.	Range Management in D. G. Khan	Forest Department D. G. Khan
200.	Rod Kohi System in D. I. Khan Division	I & P Department D. I. Khan, Govt. of N.W.F.P.
Volume XXIV	IMPACT OF POWER POLICIES ON SOCIAL AND PRODUCTIVE SECTORS	
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	Key Note Address	Ch. Ikram Ullah
201.	Power Growth in Pakistan	Capt. Khalid Sajjad
202.	Evaluation of the 1994 Private Power Policy	Javid Akhtar
203.	A Discourse of Thermal Generation Policy, Private Sector Vs. Public Sector	Iqbal Ashraf
204.	Impact of Privatization of Power on Agriculture	Dr. Muhammad Yaqoob Bhatti
205.	Impact of Hydel Policy on the Power Tariff in Pakistan	Mohi-ud-Din Khan
206.	Impact of Power Policies on Social and Production Sector	Rehmatullah Javed
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	MAY, 1998	
	Key Note Address	Dr. Izhar-ul-Haq
207.	Environmental and Social Soundness Assessment of 700 MW Thermal Power Plant	Javed A. Aziz and Rafiq Shad
208.	Nitrate, Fecal Coliform and Pesticides in Shallow Groundwater of Raiwind, Lahore, Pakistan	Shahzad Afzal, M. Farooq, M. Hammad Atique Khan, Muhammad Ismail Khan & Karamat Ali

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210.	Ghazi Barotha Power Project – A Case Study in Environmental Protection and Resource Reservation	Khurshid Ghias Ahmad
211.	Salinity Extent and its Management in Punjab	M. Azhar Javaid, Ch. Karamat Ali and Dr. Muhammad Javed
212.	Environment Conservation of Wetlands in Pakistan	Dr. Izhar-ul-Haq, Muhammad Arshad & Javaid Zaheer Iqbal
213.	Drainage and Environment Evaluation of Past Interventions and Future Strategies in Pakistan	Asrar-ul-Haq, Dr. Bagh Ali Shahid and Dr. Abdul Sattar Shakir
M 214.	Conservation of Water Resources of Pakistan	Dr. Izhar-ul-Haq and S. Tanveer Abbas
215.	Environment and Cancer	Mumtaz Hussain
216.	Eco-Impacts of Toxic Pesticides	Mumtaz Hussain
Volume XXVI	NEED FOR HYDRO-POWER DEVELOPMENT TO SOLVE ENERGY CRISIS APRIL, 1999	
	Key Note Address	Ch. Ghulam Hussain
217.	Hydro-Electric Power Potential Identified Under Pakistan-German Technical Cooperation with GTZ Additional to Potential on Main Stem of River Indus	Herbert Kuntz
218.	Role of Low Head Hydro Power Potential to Meet the Energy Crisis in Pakistan	Mahmood Ahmad Malhi and Muhammad Farooq Ahmad
219.	Available Data Banks and Information on Hydro-Power	Dr. J. J. Victoria
220.	Facilitation of Hydro-Power Development by Independent Power Producers	Riaz Nazir Tarar
221.	Feasibility Studies Ready for Involvement of Private Investment Under 1998 Power Policy	G. M. Iliass and Javed Rashid
222.	Development of Hydro-Power to Meet Energy Crisis of the Country	Ghulam Abbass and Fayyaz Asghar
223.	Manpower Requirement in Hydro-Power Engineering	Dr. J. J. Victoria and Dr. Muhammad Latif
224.	Optimization of Hydro-Electric Projects	Ch. Altaf-ur-Rehman

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XXVII	RELATED ISSUES IN PAKISTAN JANUARY, 2001	
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225.	Transport Policy and Allied Issues	Mian Ghias-ud-Din
M 226.	Rutting of Asphalt Concrete Pavements	Haroon I. Shami, Jim Hall
227.	Policy Option for Pakistan Railways	Syed Akhtar Ali Shah
228.	Indus Waterway as an International Outlet to Sea for Land Locked Central Asia	Mohi-ud-Din Khan
229.	An Introduction to Super Pave Asphalt Concrete Mix Design System	Haroon I. Shami, Jim Hall
230.	The Scenario of Public Transportation in Khuzdar	Aftab Ahmad Farooqi, Rab Nawaz and Muhammad Raza Mehdi
231.	Construction Costs of National Highways	Sadaqat Hasan Mir
232.	Lahore-Islamabad Motorway (M-2) Experience – Lessons and Improvements for Future Projects	Syed Waqar Haider
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233.	Groundwater Resource of Pakistan and its Management	Muhammad Farooq Khan Niazi & Abdul Hafeez
234.	Role of Barani Areas in Mitigation of Water Crisis in Pakistan	Muhammad Iqbal Lone & Fayyaz UI Hassan
235.	Indus River System Authority Water Resources Management Drought Mitigation Strategy	Mian Hafiz Ullah
236.	Reuse of Waste Water for Sustainable Management of Water Resources	Dr. M. A. Q. Jahangir Durrani
237.	Water Crisis in Pakistan and Solutions	Fateh Ullah Khan
238.	Anatomy of High Power Tariff	Saeed Akhtar Niazi
239.	Mitigating Water Shortage by Making Tarbela a Sustainable Reservoir	Amjad Agha and Akram Khan
240.	Demographic Influences on Land and Water Resources and Food Sustainability Concerns : Vision 2050	M. Azhar Javed, M. Tariq Yamin, Ch. Karamat Ali, Rashid Minhas
241.	A Transparent Plan for Meeting Water Shortage in Pakistan	Mohi-ud-Din Khan
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244.	Housing Issues in Urban Development of Pakistan	Prof. Dr. Syed Shabih-ul-Hassan Zaidi
245.	Urban Development in Pakistan – Beyond Housing	Maqbool Illahi
246.	Urban Planning in Pakistan	Manzoor Ahmad
247.	Urban Development Planning of Mega Cities a must Integrated Master Plan for Lahore – 2021	Sabir P. Chohan
248.	Urban Housing Development in Pakistan – A Case Study of Lahore Metropolitan Area	Prof. Dr. Ihsan-ullah Bajwa, Ijaz Ahmad, Zareen Khan
249.	PHATA – Land Use Plan	Kamil Khan Mumtaz
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252.	Urban Development with Focus on Housing	Abdul Halim Paracha
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253.	Evaluation of Procurement Procedures for Works and Goods in Pakistan	Ch. Ghulam Hussain, S. A. Kasmani
254.	Contribution of Pakistan Engineering Council for Standardization of Procurement Documents and Procedures	Mahboob ul Muzaffar
255.	Overview of the 1999 FIDIC Contract Forms and the MDB Contract	Mushtaq Ahmad Smore
256.	Dispute Resolution Under Engineering Contracts	Balal A. Khwaja
257.	Effects of WTO Regulations on Construction and Engineering Services of Pakistan	M. Mazhar-ul-Islam
258.	Procurement of Consultants' Services	Ijaz Ahmad Khan
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XXXI	CRISIS AND ITS MANAGEMENT IN PAKISTAN”	
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Climate Change: Emissions and Sinks of
Greenhouse Gases in Pakistan

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B.M. Ghauri,
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