LISTING OF PAPERS PRESENTED IN VARIOUS SYMPOSIA OF PAKISTAN ENGINEERING CONGRESS

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VOLUME / SR. NO.	TITLE OF SYMPOSIUM / PAPER	NAME OF AUTHOR
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
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
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
Volume VI	**SEDIMENTATION PROBLEMS AS A RESULT OF INDUS BASIN WORKS** **APRIL, 1962**	
37.	The Sedimentation of Mangla Reservoir	Binnie, Deacon and Gourley
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
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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
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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
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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
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71.	Contracting Practice in Pakistan	Mangla Dam Contractors
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73.	Importance of Nuclear Power Generation in the Developing Economy of Pakistan	Masnoon S. Ahmad
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77.	Role of Research in the Control and Use of Water	Mushtaq Ahmad
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79.	Hydraulic Model Research for Indus Basin Project	C. Van Beesten
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81.	Water Conservation Studies for West Pakistan	Dr. Nazir Ahmad
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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
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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
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152.	An Overview of Energy Position in Pakistan	Muhammad Irfan Akhtar
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166.	Socio-Economic Imperatives of Hydro-Electric Development in Pakistan	Mian Fazal Ahmad
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178.	Modern Telecommunications on Pakistan Railways	Khalid Qasim
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192.	Flood Management of Hill Torrents in Pakistan	Dr. A. S. Shakir, Asrar-ul-Haq and Dr. B. A. Shahid
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194.	Role of Small Dams in Stream Flow Regulation	Abdul Ghaffar
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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
209.	Pakistan in the Grip of Deficient Contemporary Environmental Technologies	Ahmad Nawaz Cheema
210.	Ghazi Barotha Power Project – A Case Study in Environmental Protection and Resource Reservation	Khurshid Ghias Ahmad
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222.	Development of Hydro-Power to Meet Energy Crisis of the Country	Ghulam Abbass and Fayyaz Asghar
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234.	Role of Barani Areas in Mitigation of Water Crisis in Pakistan	Muhammad Iqbal Lone & Fayyaz Ul Hassan
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236.	Reuse of Waste Water for Sustainable Management of Water Resources	Dr. M. A. Q. Jahangir Durrani
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247.	Urban Development Planning of Mega Cities a must Integrated Master Plan for Lahore – 2021	Sabir P. Chohan
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257.	Effects of WTO Regulations on Construction and Engineering Services of Pakistan	M. Mazhar-ul-Islam
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259.	Need for Updation of Procurement and Contract Administration	Abdul Qayyum

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262.	Genesis of Power Crisis and its Management in Pakistan	Amjad Agha
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264.	Self Generation to Combat Power Crisis	Dr. Engr. Javed Yunas Uppal
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