Journal of The Institution of Engineers (India): Series A

Volume 96 · Issue 3 · July-September 2015

ORIGINAL CONTRIBUTIONS

Spatial and Temporal Variation of Meteorological Drought in the Parambikulam-Aliyar Basin, Tamil Nadu

M. Manikandan · D. Tamilmani 177

Comparison of Estimators of Gumbel Distribution for Assessment of Seasonal and Annual Rainfall

N. Vivekanandan 185

Planning Interventions for Lake Conservation: A Case of Shahpura Lake, Bhopal, India

N. Munoth · A.A. Nagaich 193

Concealed Utility Route Planning: Guidelines for Indian Residential Buildings

S. Gupta 207

Compass & Vernier Type Models in Indo Archaeology: Engineering Heritage

D. Bhattacharya 215

Behaviour of Cohesionless Soil Reinforced with Three Dimensional Inclusions Under Plane Strain Conditions M. Harikumar · N. Sankar · S. Chandrakaran 223

Production and Characterization of Ethyl Ester from Crude *Jatropha curcas* Oil having High Free Fatty Acid Content

R. Kumar · A. Dixit · S.K. Singh · G. Singh · M. Sachdeva 229

Adsorption Studies of Chromium(VI) on Activated Carbon Derived from *Mangifera indica* (Mango) Seed Shell

S. Mise · T.N. Patil 237

Optimal Design of Sheet Pile Wall Embedded in Clay M.R. Das · S.K. Das 249

REVIEW PAPER

Air Pollution and Control Legislation in India P.P. Bhave · N. Kulkarni 259

Further articles can be found at link.springer.com

Instructions for Authors for *J. Inst. Eng. India Ser. A* are available at http://www.springer.com/40030