



INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI  
SHORT ABSTRACT OF THESIS

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Thesis Title: **Study of the Process-form Relationships in Continuum of Braided Channel Patterns**

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The braided rivers are governed by complex, unstable river networks formed due to the interaction of high flow energy and intense sediment transport. The generation of complex morphological adjustments over a braided corridor is a response to the changes in flow and sediment supply. Understanding braided river behavior and underlying concepts through field-based studies, modeling, analysis and cloud computing can be beneficial for their effective management. The present thesis provides a comprehensive understanding of the process-form relationships and associated management approaches along the continuum of braided channels.