



REQUEST FOR EXPRESSION OF INTEREST

Title of the assignment: **Whole genome sequencing of Indian Major Carps (*Labeo rohita*, *Catla catla*/*Gibelion catla*, *Cirrhinus cirrhosus*, *Labeo calbasu*) and genome annotation to explore genetic variations**

INTEGRATED DEVELOPMENT FOUNDATION (IDF) is a non-profit, non-government organization established in December 1992 and based in Dhaka. IDF has been implementing the project on “Conservation of Natural Breeding Ground of Fishes and Development Project in the Halda River” under the “Promoting Agriculture Commercialization and Enterprises (PACE) Project” of PKSF and International Fund for Agricultural Development (IFAD). As a part of this endeavor IDF wishes to invite qualified researchers inside Bangladesh to undertake relevant research with following objectives.

- To develop a draft genome of Indian Major Carps (*Labeo rohita*, *Catla catla*/*Gibelion catla*, *Cirrhinus cirrhosus*, *Labeo calbasu*) with high sequence coverage (50X) using state-of-the-art Next-generation sequencing (NGS) approach and other modern computational biology tools
- To identify genome heterozygosity and gene(s) associated with different essential traits (e.g., Adaptation, breeding and evolution) with a view to branding of the Halda carps
- To determine the genetic characterization & genetic diversity of these Indian major carps, as well as to detect distinct features of Halda river carps with a view to branding of the Halda carps
- To develop a draft genome of *Platanista gangetica* (South Asian River Dolphin) with high sequence coverage (100X) using state-of-the-art next generation sequencing (NGS) approach and other modern computational biology tools
- To identify the segments of Dolphin genome responsible for adaptation, fitness and ultimately for developing modern and fast monitoring tools for endangered biodiversity to promote River Dolphin conservation

Terms and conditions of the EOI will be available on request to the address below. Interested parties are requested to submit EOI by post in a sealed envelope or by electronic submission to the following address: Executive Director (Integrated Development Foundation(IDF)), House #18, Road #5, Block #A, Mirpur-2, Dhaka-1216, Bangladesh. Email: zalam_idf@yahoo.com ; www.idfbd.org

Note: The EOI document must be submitted in one (01) set of original and two (02) exact sets of copies.