

National Mission on Himalayan Studies  
PERFORMA FOR THE HALF YEARLY PROGRESS REPORT  
(Period from May/2016 to November/2016)

Project Title -: **Fish Faunal Diversity, Habitat Ecology and their Conservation strategies of the Kameng River system in Arunachal Pradesh**

Sanction No. and date -: **NMHS/SG-2016/015 Date: 31-03-2016**

Institution Name-: **Department of Zoology, Gauhati University, Guwahati-781014**

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## Partners Details

Sl. No	Work assigned to partners	Fund allocated to partners during the period
1. Dr. Dandadhar Sarma	Principal Investigator, Overall management of the project including survey and field work	Sanctioned amount of Travel, Contingency and Other cost Head has already been sanctioned to the PI by Finance and account department of Gauhati University. Payment of other head (Salary, Equipment & consumables) is managed by the finance department as per terms & condition & requirements of the project.
2. Prof. W. Viswanath	Co-investigator, cataloguing of the Fish fauna.	Spent by PI during field visit and other project activities
3. Sri Ratul Chandra Bharali	Co-investigator, Survey and Field work and also help in organization meeting with various stakeholders of the studied area.	Spent by PI during field visit and other project activities
4. Sri Sarbojit Thaosan	Co-investigator, Survey and Field work and also help in organization meeting with various stakeholders of the studied area.	Spent by PI during field visit and other project activities

### Project Objectives:

- To examine the fish fauna, their diversity patterns in the distribution of different fish biodiversity components (seasonal plus altitudinal variation, taxonomic richness, endemism, taxonomic singularity and rarity) of Kameng River and its tributaries in Arunachal Pradesh from upstream to downstream.
- To analyze the state of habitat ecology, species diversity and possible influence on native fish fauna by exotic fish.
- To study different indices of fish biodiversity management for formulating possible conservation strategies.

**Completion in the last six months in % (According to each Deliverables)-:**

SI No	Quantifiable Deliverables (as per sanction letter)	Output/ achievements	Performance in terms of Monitoring indicators	Remarks
1.	Checklist and Monograph of existing fish fauna of the River along with its diversity, distributional pattern, habitat suitability and commercial value will be prepared	Necessary permission for Fish sample Collection & Survey for selection of Sampling site has already been made. Sampling site wise Fish Sampling for retreating Monsoon for all sampling site has been made. Sampling for winter season is in progress	Satisfactory and according to work plan	
2	To analyze the state of habitat ecology, species diversity and possible influence on native fish fauna by exotic fish.	Collection of water sample, soil samples and other biotic component of Retreating Monsoon of all the selected sites has already been made.	Satisfactory and according to work plan	
3.	To study different indices of fish biodiversity management for formulating possible conservation strategies.	Initial Meeting with Officials, Village leader of the area has already organized	Satisfactory and according to work plan	

## Summary of progress

Immediately after receiving the sanction letter, necessary permission for collection of Fish samples and other aquatic component from the River has already been acquired from DFDO of both East & West Kameng district of Arunachal Pradesh. Meeting with the officials and village leader of different panchayat of the vicinity of the River has also been organized to ensure their cooperation during field survey and other activities of the Project. Selection of sampling site for collection of water samples, soil samples, fishes and other aquatic biota has already been done. A total of 13 sampling sites were selected initially through the stretches of the River in Arunachal Pradesh on the basis of topography, altitudinal variation and tributaries. Collection of fish sample, water sample & soil samples from all sampling sites has already been made for retreating Monsoon. Collection of Fish Sample & water for winter is in progress. For Physico-chemical parameters of water, following parameters are taken into consideration so far: Temperature, Turbidity, Conductivity, DO, FCO<sub>2</sub>, pH, Acidity, Alkalinity as CaCO<sub>3</sub>, Hardness as CaCO<sub>3</sub>, Chloride. A total of 10 fish species under 3 orders has been collected so far. Identification of unidentified fish species is in progress. Collection of other information such as invasive species, diversity of fish fauna etc. in accordance with work plan is in progress.

## Supporting data files/ maps/ tables/ figures of the results to be attached

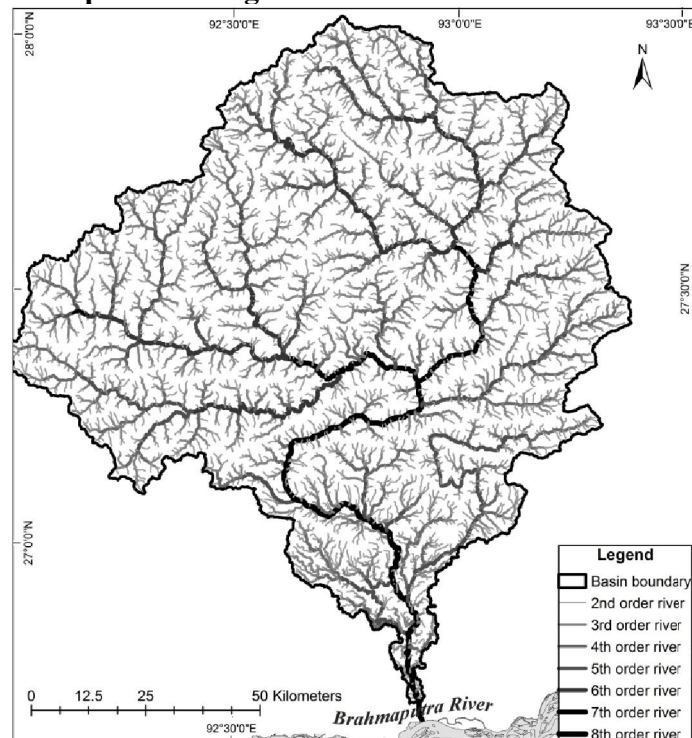


Fig: Drainage Map of Kameng River System

Name of the PI:- Dr. Dandadhar Sarma

Signature :-