



## **TERMS OF REFERENCE (TORS) FOR GIS MAPPING AND SPATIAL ANALYSIS OF VARIOUS ASPECTS OF RESEARCH STUDIES BEING CONDUCTED AS PART OF WWF'S PINGER INNOVATION PROJECT**

### **1. Objectives**

We seek to engage a consultant to develop GIS mapping and spatial analysis methods to develop maps of various aspects of research studies being conducted as part of WWF's pinger innovation project.

### **2. Terms of References**

- Spatial mapping of fishing and dolphin bycatch hotspots in selected sites of the Indus River;
- Generate baseline and monitoring maps of the experiment sites maps
- Conduct an analysis of population trends and spatial distribution mapping
- Development of maps of fishing zones and no-take areas
- Maps of various project interventions

### **3. Deliverables:**

- Study plan, data collection formats, timelines, etc., which WWF-Pakistan will endorse;
- Maps with spatial and temporal analysis

### **4. Required Skills and Qualification:**

- Prior experience of working on the Indus River Dolphin and aquatic biodiversity related spatial and temporal mapping is mandatory
- At least 5 years of prior experience in analyzing data and creating visual maps, metrics, readable reports, and database user interfaces
- Skilled in the use of software such as AutoCAD, CADD, Microstation, Topobase, ESRI ArcEditor, SQL, LISP, VBA and .NET Framework
- Extensive experience in using map creation software, including ArcGIS, ArcIMS, ArcView, and Trimble Pathfinder Office and competent in C#, C++, and Perl
- Critical thinking and complex problem-solving skills and aid in finding workable solutions to problems;

### **5. Timeline for the study: 30 days**

### **6. Submission Procedure**

The consultancy firm that wishes to express interest in undertaking the prescribed assignment is requested to submit their respective proposals online through the WWF-Pakistan website:

- A technical proposal not exceeding ten pages

- An understanding and interpretation of the TOR
- Methodology to be used in undertaking the assignment
- Time and activity schedule
- Evidence of relevant experience and samples of products related to the assignment
- Curriculum vitae of the lead consultants to undertake the assignment
- A financial proposal

**7. Conditions:**

- WWF-Pakistan reserves the right to accept any proposal or reject all proposals
- Only shortlisted consultants will be contacted for further consideration.

**8. Copyrights:**

WWF-Pakistan will have the copyright for the entire study data; the consultant(s) will have no right to use the data in any form or publication.

**9. Guideline for submission of proposal/expressions of interest:**

Interested consultants should submit the following documentation to **Muzzammil Ahmed** ([mahmed@wwf.org.pk](mailto:mahmed@wwf.org.pk)) and **Maham Zahara** ([mzahara@wwf.org.pk](mailto:mzahara@wwf.org.pk))

**Work plan**

- Application form available at Consultancy section of WWF Website
- A technical proposal not exceeding 10 pages
- An understanding and interpretation of the TORs
- Methodology to be used in undertaking the assignment
- Time and activity schedule
- Evidence of relevant experience and samples of products related to the assignment
- Curriculum vitae of the lead consultants to undertake the assignment
- Work Plan
- A financial proposal consist of the cost of assignment in lump sum including all applicable taxes of the Government of Pakistan and out of pocket expenses.

**10. Selection Criteria:**

Applicant's proposal shall be evaluated based on Quality and Cost Based Selection (QCBS) method. Under QCBS both technical and financial proposals shall be evaluated as per following criteria against a maximum score of 100 points.

- a. Technical Proposal 70%
- b. Financial Proposal 30%

The following criteria shall be used as a basis for evaluation of technical proposals:

- Qualifications (maximum 30 points)
- Experience relevant to the assignment (maximum 30 points)
- Adequacy of the proposed methodology and work plan (maximum 20 points)

- Skills & Competencies for the assignment (maximum 10 points)
- Prior experience with WWF-Pakistan (maximum 10 points)

Note: Late/ incomplete submissions will not be accepted. Only three (03) top-ranked firms will be included in the comparative process.