Sustainable Finance Mobilization Program for PSDP
Data Scientist
Terms of References

According to World Bank's CCDR, it is estimated that the total investment of USD 348 Billion is required for climate response between 2023 and 2030. Additionally, to achieve full implementation of its Nationally Determined Contributions (NDCs), Pakistan would require a total cost of nearly USD 200 billion.

As a result, there is a concerted effort to mobilize private capital for climate responsive investment domestically and internationally. In this regard, Planning Commission has initiated SFMP. The resulting framework and manuals for private capital mobilization including climate finance & carbon finance would be approved by the Planning Commission and will apply to all Public Sector projects. The ToRs are enclosed:

Data Scientist

1. **Design and Implement Analytics Frameworks**

   - Design and implement robust data analytics frameworks to support the evaluation and enhancement of climate finance programs.

   - Document the structure, methodologies, and tools employed in the analytics framework.

2. **Analyze and Interpret Data**

   - Analyze and interpret complex datasets to generate actionable insights.

   - Present findings in clear and concise formats to facilitate strategic decision making.

3. **Collaborate with Stakeholders**

   - Collaborate with external stakeholders, including financial institutions, environmental agencies, and international partners, to gather and utilize relevant data for strategic decision making.

4. **Provide Analytical Support**

   - Provide expert analytical support to ministries and provincial departments to foster a comprehensive understanding of data-driven decision making within the context of climate finance.

   - Develop guidelines to promote a comprehensive understanding of data-driven decision making in climate finance.

5. **Develop Predictive Models**

   - Develop predictive models to forecast the outcomes of climate finance initiatives and evaluate the financial implications of potential climate-related risks.

6. **Formulate Data Governance Strategies**

   - Formulate strategies for a data governance framework for climate finance.

Deliverables

The consultant will be required to deliver the following:

1. **Documentation of Analytics Framework**

   - Documentation outlining the structure, methodologies, and tools employed in the analytical framework.

2. **Data Analysis Report**

   - Analysis and interpretation of complex datasets to extract actional insights relevant to climate finance decision making.
   - Presentation of findings in clear and concise formats.

3. **Predictive Models and Guidelines**

- Development of predictive models to forecast outcomes of climate finance initiatives and assess the financial implications of potential climate-related risks.
- Guidelines for ministries and provincial departments to promote a comprehensive understanding of data-driven decision making in climate finance.

Qualifications and Experience

The assignment necessitates a seasoned Consultant with a client-centric approach, adept at fostering effective communication among critical internal and external stakeholders, delivering tangible results, and proficient in disseminating expertise to personnel within the MoPDSI.

Interested Consultant should clearly demonstrate their relevant expertise in the following areas:

- Master's degree in data science, statistics, or a related field, with a strong foundation in statistical modeling and data analysis.
- Proficient in statistical software and tools such as R, Python, SQL, and visualization platforms like Tableau or Power BI.
- Strong analytical skills, with a proven ability to interpret complex data and translate it into clear, actionable insights.
- Knowledge of climate finance mechanisms, policies, and internationals frameworks is highly desirable.
- Excellence communication skills, capable of effectively presenting data-driven insights to a non-technical audience.

Payment Schedule and timeline

Deliverable	Timeline	Payment Amount
Inception Report	End of Month 1	20%
1st Report	End of Month 2	30%
Final Report	End of Month 4	50%

Reporting

Based in the Sustainable Finance Mobilization Program at MoPDSI, and reporting directly to the Project Director, the Consultant will provide support to the team in the design and execution of the program's functions.

Duration

The local consultancy is expected to be for a period of four months.