

SINDH BARRAGES IMPROVEMENT PROJECT (SBIP) – ADDITIONAL FINANCING

TERMS OF REFERENCE (TOR) FOR

THIRD PARTY CONSULTANT FIRM TO PREPARE SITE SPECIFIC ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP) AND TO PERFORM THIRD-PARTY MONITORING OF THE EXCAVATION/DESILTATION WORKS ON THE RIGHT BANK CANALS OF SUKKUR BARRAGE

1. Background Information

Government of Sindh (GoS) is undertaking Sukkur Barrage Rehabilitation and Modernization Project (the Project) to enhance its useful life of the Barrage and to safeguard the reliable supply of irrigation water to about 3.33 million ha. The project is located near the towns of Sukkur and Rohri in Sindh province. As a part of the project, the implementing agency is planning to undertake the excavation/desilting of three (03) canals (Rice, NW and Dadu canals) off taking from the right bank of the Indus river at Sukkur Barrage. About 4.24 MCM of sediments will be removed from these canals. The length of Rice, North Western and Dadu Canals to be desilted is 25.6km, 7.01km and 7.01km respectively. The desilting of the Dadu and North Western canals is planned to be carried out over a period of two years, but only during the month of January, when the canals are closed annually for maintenance works. While, desilting of Rice Canal will be carried out over a period of 3 months (October to December) during its six month of canal closure period. Normal means of excavations using excavators and dumpers will be used for desilting.

Project Management Office (PMO) of Sindh Barrages Improvement Project (SBIP) has confirmed during the mission that project area for excavation/desilting works will be confined to the canal bed width and side slopes. The embankments will be out of the scope of work and no civil works (permanent or temporary) will be carried out, no contractor operations will be allowed, and no dumping of excavated materials will be done on the embankments of these canals.

About initial 26 RDs of embankments of these canals are encroached and government has recently removed some of the encroachers under the anti-encroachment drive following the orders of the Supreme Court. Keeping this sensitivity in view, it is important to ensure that excavation/desilting works to be conducted in the project will be confined to the canal bed width and side slopes, and these embankments remain out of the scope of work and all social and environmental impacts are avoided on these embankments. To ensure this, PMO of SBIP intends to hire a Third-Party Consultant (TPC) Firm to prepare the site specific Environmental and Social Management Plan (ESMP) for excavation/desilting works and to perform third party monitoring of the ESMP implementation. This document includes assignment objectives, scope, duration, deliverables and composition of team for TPC, Firm. The TORs will be reviewed and cleared by the World Bank for finalization and before hiring of TPC, Firm.

2. Assignment Objectives

The core objectives of this assignment will be but not limited to the following;

- i. To identify and update the potential environmental and social impacts and risk on encroachers on the right bank canals associated with canal excavation/desilting works based on the latest work plan and

propose site specific environmental and social mitigation measures to avoid the potential impacts on the encroachers and land where encroachers were already removed.

- ii. To monitor and supervise the canal excavation/desilting works to ensure physical impacts on encroachers presently living in the canal right bank area and on the land where encroachers previously lived are avoided.
- iii. To support the procurement process and to ensure E&S related requirements are reflected in preparation of the pre-qualification and tender documents for the hiring of the Contractors.

3. TPC Firm's Scope of Work and Timelines

The scope of work for TPC, Firm has been divided into following three phases;

- Phase A; Preparation of ESMP for Canal Desilting Works;
- Phase B; Support for Procurement Process;
- Phase C; Third Party Monitoring;

Scope, duration/timelines and deliverables of each section of this assignment has also been discussed below;

1) Phase A: Preparation of ESMP for Canal Desilting Works

Scope

Under this section of the assignment of the assignment TPC, Firm will be required to perform following tasks;

- i. Review of existing data including project safeguard documents, design documents, project drawings and other related materials to develop a complete understanding of the project and excavation/desilting works needed for the ProjectWork in close collaboration with the design consultant and PMO to review the proposed methodology of the excavation/desilting and sediment disposal works in canals, analyze, document and present different alternatives from environmental and social perspective to minimize the impacts within the area of project scope and to ensure that impacts on embankments and encroachers are avoided.
- ii. Delineate the project area of influence for the assessment of the environmental and social impact of the excavation/desilting operations and conduct detailed baseline studies to assess and present the existing; physical, ecological and social environment of the project area. The baseline should essentially include; following aspects but not be limited to; existing land use patterns, ambient air quality, surface and ground water quality and noise, terrestrial flora and fauna, aquatic flora and fauna, sediment quality, living conditions of the local communities, educational and healthcare facilities, spiritual affiliations and structures along with other infrastructures not only within the direct but also in the broader area. In addition, when the existing data is not sufficient additional sampling and analysis should be taken place. The baseline studies should present quantified data for all the above mentioned environmental and social aspects, especially the baseline conditions and inventory of assets, trees and other infrastructure not only within the direct but also in the broader area;
- iii. Conduct stakeholder analysis and identify both; primary and secondary stakeholders within close proximity of the project area and perform consultations with both i.e. primary as well as secondary stakeholders. Consultation should also identify potential E&S issues and concerns and discuss the

proper mitigation measures. Prepare, document and present a detailed stakeholder engagement plan to PMO which should be implemented during the construction and operations phases of the project;

- iv. Identify and assess the potential impacts on environmental and social resources. The impacts should be quantified to the extent possible, and qualitative discussion should be presented to explain the outcomes of the quantitative assessment. Devise the mitigation measures with clear roles and responsibilities and assess if any further studies related to E&S aspects are required;
- v. The social impact assessment, in addition to other aspects, will also cover the assessment of impacts due to labour influx, ensuring that there is no use of child labour and Gender Based Violence (GBV)/Sexual Exploitation and Abuse (SEA). The impacts will be assessed, and the measures will be provided to address them in ESMP;
- vi. The Project already has an operational Grievance Redress Mechanism (GRM). The Consultant will assess how this activity will effectively utilize the existing GRM. If there are any measures needed to further strengthen the existing GRM, ESMP will provided these measures.
- vii. Prepare the site specific Environmental and Social Management Plan (ESMP) for the desilting operations. ESMP should also include the measures related to community health and safety, e.g. traffic safety, access control, and Occupational Health and Safety. The site specific ESMP should cover all the mitigation measures proposed in Environmental and Social Assessment (ESA) for Sukkur Barrage Rehabilitation and Modernization, and other relevant project safeguard documents. WGB EHS General Guidelines and EHS Guidelines for Ports, Harbors and Terminals are also referenced when ESMP is prepared;
- viii. TPC, Firm should devise and present a mechanism for full-time third-party monitoring as a part of the ESMP and prepare the cost estimates and budget for the implementation of ESMP;
- ix. Prepare the draft ESMP report for the review of the PMO, incorporate the comments from PMO and prepare the draft final ESMP for the review of World Bank and finalize the ESMP after incorporating the comments from World Bank;

Deliverables and Timelines and Contract Type

The TPC, Firm will be required to submit two (02) hard and two (02) soft copies of the following reports as part of Phase-A of the assignment. Phase A would be based on a lump sum type of contract of three (03) months and all the above-mentioned deliverables should be submitted to PMO within the stipulated timelines given below;

S.no	Deliverables/Reports	Submission Timeline;
1.	Inception Report; Should include consultant's interpretation of the TORs and a detailed work plan. The inception report will be discussed with and cleared by the PMO.	The inception report should be submitted to PMO within two (02) working weeks after contract award.
2.	Draft ESMP Report; In line with the table of content agreed in the Inception	Final draft ESMP report submission should be done within two (02) working months

	Report, and fulfilling the requirements as outlined above. Initial draft ESMP Report will be discussed with PMO, and then the draft ESMP Report will be presented in a workshop with stakeholders. The ESMP Report should also contain the baseline.	of the contract award.
3.	Final ESMP Report; Should be prepared after incorporating client and stakeholder feedback, including the comments received from the workshop. The report also needs to explain methodology/types of consultations carried out, key data such as; type of meeting, stakeholder group type, number of participants, date, photographs, key points/issues that emerged from the meetings/consultations and how these are/will be addressed in the Project, and separate proceedings for each formal workshop(s).	Final ESMP report should be submitted within three (03) months from signing of the contract.

2) Phase B: Support for the Procurement Process

Scope

Under this section of the assignment of the assignment TPC, Firm will be required to perform following tasks;

- i. Support the procurement process and provide E&S related inputs during preparation of the pre-qualification and tender documents for the hiring of the Contractor. This will include providing E&S related inputs during development of the pre-qualification and bid-evaluation criteria; providing inputs during preparation of tender documents ensuring that the ESMP recommendations and environmental code of practices (ECOP) are comprehensively covered; and providing any other E&S related support; and
- ii. Supporting the pre-qualification and tender evaluation process focusing on the E&S aspects and assessing the capacity of the Contractor so that the compliance with the E&S recommendations of ESMP will be ensured during construction stage.
- iii. Preparing a brief evaluation report covering the E&S aspects as described above. This will be made part of the overall tender evaluation report.

Deliverables and Timelines and Contract Type

The deliverables, timelines and type of contract combined with Phase-C are described in the next section.

3) Phase C: Third Party Monitoring

Scope

- i. Perform regular third-party monitoring to check that the ESMP is properly implemented and no physical activities are carried out within the lands where encroachers exist or have been removed during the entire period of excavation/desilting operations;
- ii. Request and receive the update on the encroachment removal activities in the right bank canal areas from Sindh Irrigation Department and other relevant parties including location, the number and attribute of affected household and include such information in the monthly third-party monitoring reports.
- iii. Participate in meetings and discussions with the Client (PMO), World Bank (WB) and other stakeholders as and when required by PMO and WB;
- iv. Prepare and timely submit to PMO monthly third-party monitoring reports containing status of the ESMP implementation and assurance of no physical impacts on the lands where encroachers exist or have been removed; and
- v. Perform any other environment and social related tasks as discussed and agreed with Client (PMO) and the World bank.

Deliverables and Timelines (Phases B and C)

Phase B & C would spread over the period of fifteen (15) working months covering the support for the procurement of contractor and Third-Party Monitoring (TPM) of ESMP implementation and assurance of no impacts on encroachers. Phase B&C will be based on a time-based type of contract of fifteen (15) working months and TPC, Firm will be required to submit following deliverables to PMO within the stipulated timelines;

S.no	Deliverables/Reports	Submission Timeline
1.	Monthly Progress Report; Should be prepared each month with the deadlines agreed between PMO and TPC, Firm and submitted to PMO on monthly basis showing summary of activities performed by TPC, Firm each month;	The progress report should be submitted by the 10 th day of each month;
2.	Monthly Third-Party Monitoring (TPM) Report; Should be prepared on monthly basis within the deadline agreed between PMO and TPC, Firm and submitted to PMO on monthly basis. Each report should contain the latest status of the ESMP implementation and assurance of no physical impacts on the lands where encroachers exist or have been removed.	The TPM report should be submitted by the 5 th day of each month;
3.	Completion Report; Should be prepared within one (1) month after the completion of the excavation/desilting works	After one (01) working month of completion of excavation/desilting works and a month before end of the contract

	summarizing the overall status of the implementation of the ESMP and confirmation that there were no physical impacts on the lands where encroachers exist or have been removed.	awarded to TPC, Firm;
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4. Team Composition

The services of the Consultant shall be provided and managed with a functional team managed by the Team Leader. The Consultants team composition shall be such that all members will report to the Team leader directly, or to assigned supervisors within the team. The Consultant shall provide qualified and competent staff to fully carry out all the services. The Consultant is free to propose a staffing plan based on the Scope of work outlined in this TORs document in order to ensure that necessary requisite objectives and scope of services are achieved.

All experts shall be evaluated based on their competence and experience. The duration of services is anticipated to be 18 months. At minimum, the following “Core Team” positions given on the next page comprising of International and Local staff will be required:

S.no	TPC, Firms Team Composition	Qualifications and Tasks
1.	<p>Team Leader</p> <p>Social Safeguards Specialist</p>	<p>Qualification Criteria of Team Leader</p> <p>S/he should have Masters' degree or equivalent in Social Sciences or related field. S/he should have 15 years professional experiences and at least 10 years' experience in the relevant field covering social development, and social safeguards, including resettlement planning and implementation, social impact monitoring. She/he must have experience on preparing and implementing ESIA, ESMPs. He/she shall be familiar with World Bank procedures and processes for designing and implementing programs in developing countries. He/she should have complete understanding of solutions to minimize the resettlement, mitigating adverse environmental and social impacts associated with excavation/desilting, and undertaking necessary communicating with all stakeholders, including the concerned communities, Government officials, the Bank. On-hands experience in similar assignment in Pakistan will be required.</p> <p>Tasks/Responsibilities</p> <p>His/her major responsibilities shall include but not necessarily be limited to the following:</p> <ul style="list-style-type: none"> - Responsible for carrying out the overall tasks mentioned in this TORs. - Obtain baseline information prior to the commencement of the project - Maintain liaison with the concerned communities, the PMO, the

S.no	TPC, Firms Team Composition	Qualifications and Tasks
		<p>World Bank and other related Government agencies throughout the assignment;</p> <ul style="list-style-type: none"> - Monitor, guide and supervise the project activities in terms of social safeguards; - Comparison of the alternative plans and find out the suitable engineering and administrative solutions for reducing the chances of adverse environmental and social impacts; - Providing inputs during procurements process as defined in the TOR to ensure adequate capacity of selected contractors; - Reviewing the civil works contracts and ensuring the inclusion of the elements stipulated in ESMP; monitoring the contractors' performance and causing the contractors comply with the ECOP
2.	<p>Deputy Team Leader</p> <p>Environmental Specialist</p>	<p>Qualification Criteria of Deputy Team Leader</p> <p>Minimum Masters' degree in Environmental Engineering/Environmental Scientist or Water Resources Engineering/ with special training in carrying out EIA and preparation of EMP. He/she should have minimum 10 years professional experience with at least 5 working experience in similar assignments.</p> <p>Tasks/Responsibilities</p> <p>His/her major responsibilities shall include but not necessarily be limited to:</p> <ul style="list-style-type: none"> - Assess the baseline environmental condition; - Assess the potential impacts of the project activity on surrounding environment; - Prepare environmental part of the site specific ESMP based on the current project plan; - Providing inputs during procurements process as defined in the TOR; - Assist in preparation of different reports as required by the team leader; <p>Monitor the implementation of ESMP by the contractor;</p>
3.	<p>Social Scientist/ Sociologist/Resettlement Specialist</p>	<p>Minimum Masters' degree in sociology/ economics/social welfare. He/she should have minimum 10 years professional experience and at least 5 years working experience in planning and design of Resettlement Action Plan (RAP) for the project affected persons (PAPs). Identification of the PAPs and assessment of their loss of assets and incomes. Carry out survey and consultation including focus group discussions for collecting local information on social condition.</p> <p>Tasks/Responsibilities</p> <p>His/her major responsibilities shall include but not necessarily be limited to:</p> <ul style="list-style-type: none"> - Review the land registry and ownership of the project area; - Provide inputs related to social aspects in baseline assessments analysis of alternatives and impact assessment and mitigation; - Develop communication strategy and include in ESMP; - Play a role as a liaison with local community of the project area to

S.no	TPC, Firms Team Composition	Qualifications and Tasks
		<p>communicate about the project;</p> <ul style="list-style-type: none"> - Carry out focus group discussions / discussions for collecting local information on social condition, etc; - Conduct community consultation for preparation of ESMP and when considered necessary; - Prepare social part of the ESMP report; - Providing inputs during procurements process as defined in the TOR; - Conduct full time rigorous monitoring to ensure the project activities are not implemented within the land where encroachers are living or were already removed; - Provide inputs for the third-party monitoring reports; <p>Any other aspects as discussed and required by the Client or World Bank;</p>
4.	Gender Specialist	<p>Qualification Criteria of Gender Specialist</p> <p>Minimum Masters' degree in sociology/gender/social welfare. She should have minimum 10 years professional experience and at least 5 years working experience in planning and design of gender communication and planning in resettlement and in the other development context. Carry out survey and consultation specifically with woman and vulnerable.</p> <p>Tasks:</p> <p>Her major responsibilities shall include but not necessarily be limited to:</p> <ul style="list-style-type: none"> - Review the land registry and ownership of the project area and identify the area where the attention to women and vulnerable are required; - Make contribution to establish communication strategy from gender and vulnerable' perspective and include in ESMP; - Play a role as a liaison with local community of the project area to communicate about the project especially with women and vulnerable; - Carry out focus group discussions / discussions with women and vulnerable for collecting local information on social condition, etc; - Conduct community consultation especially with women and vulnerable for preparation of ESMP and when considered necessary; - Provide inputs related to the gender aspects to be included in ESMP; - Providing inputs during procurements process as defined in the TOR; - Collaborate with the Social Scientist/ Sociologist/Resettlement Specialist to jointly conduct the third-party monitoring; - Provide inputs for the third-party monitoring reports; - Any other aspects as discussed and required by the Client or World Bank;

S.no	TPC, Firms Team Composition	Qualifications and Tasks
5.	GIS/ Remote Sensing Specialist	<p data-bbox="589 264 1421 296">Qualification Criteria of GIS/Remote Sensing Specialist</p> <p data-bbox="589 306 1421 432">Minimum B. Sc. Degree in Civil Engineering/Water Resources Engineering/Urban and Rural Planning/Hydrology/Masters in Geography. He/She should have at least 8 years' experience in producing GIS coverage, contour map, Digital Elevation Model.</p> <p data-bbox="589 474 678 506">Tasks:</p> <p data-bbox="589 537 1421 600">His/her major responsibilities shall include but not necessarily be limited to:</p> <ul data-bbox="589 642 1421 823" style="list-style-type: none"> <li data-bbox="589 642 1421 768">- Review and analyze the geographical information on the locations where anti encroachment activities are planned or were carried out, and ensure the project activities are taken place outside of those areas; <li data-bbox="589 779 1421 823">- Preparation of maps of project activity area and location where anti encroachment activities are planned or were carried out;