

LOAN 3806-SRI: RAILWAY EFFICIENCY IMPROVEMENT PROJECT(REIP)

TERMS OF REFERENCE STUDY THE BENEFITS AND POTENTIAL FUTURE OPPORTUNITIES FROM REIP TO THE RAILWAY SECTOR

A. Background and Objectives

1. Sri Lanka has received financing from the Asian Development Bank (ADB) for the Railway Efficiency Improvement Project (REIP) (the project) and intends to apply a portion of proceeds to engage a national consultant (the consultant) to study the benefits and potential future opportunities from REIP to the railway sector. The Ministry of Transport and Highways/Sri Lanka Railways (SLR) will be the executing agency. The project will be implemented by the Project Management Unit (PMU) of REIP.

2. The project is intended to improve the overall efficiency of railway operations. The major outputs are described in Table 1.

Table 1: Summary of Project Outputs

| Outputs | Description |
|--|---|
| (ii) Operational efficiency improved | <ul style="list-style-type: none">• Telecom System• Computerized Ticketing System• Operation Headquarter and Train Control Center |
| (ii) Maintenance capacity strengthened | <ul style="list-style-type: none">• New Workshop and Stores• Sleeper Tamping and Ballast Profiling Machine• Universal Armature Machine• 02 Track Motor cars and 12 Miniwagons• 05 Nos. Rail Road Loaders• Ballast Profiling Machine• 50T Hydraulic Crane• 10,000 Nos. Rails• Spare parts for maintenance• Tools for DMU workshop |
| (iii) Railway safety improved | <ul style="list-style-type: none">• Housing Units for Relocation of People Living Within Existing Railway Corridor• Passenger Facility at CMB Fort, Maradana and Anuradhapura• Passenger Seating Facility (450Nos. Station Benches) |
| (iv) Technical training center upgraded. | <ul style="list-style-type: none">• Train Simulator• Generator for SLGRTCC |
| (iv) Project implementation capacity and project readiness strengthened. | <ul style="list-style-type: none">• provide implementation support for goods and works packages,• prepare a feasibility and detailed design study for the Kandy suburban railway lines.• support individual consultants for expert advisory roles in railway operations. |

3. The main objective of the consulting services is to study the benefits and potential future opportunities from the Railway Efficiency Improvement Project (REIP) on Sri Lanka Railways (SLR) operations and services and assess the effectiveness of the implemented outputs in improving operational efficiency, maintenance capacity, railway safety, and technical training.

Methodology

- Conduct a comprehensive mix of surveys, interviews, and focus group discussions involving SLR management, employees, passengers, and project staff.
- Collect quantitative data on key performance indicators, including but not limited to train punctuality, maintenance costs, safety incidents, and training outcomes.
- Employ qualitative analysis techniques to gather insights into stakeholder perceptions, challenges faced, and lessons learned during the implementation of REIP.

4. The consultant will report directly to the Secretary of, the Ministry of Transport and Highways.

Scope of Services

The Consultant shall carryout all the activities necessary to achieve the objectives stated above; and in doing so shall assist the PMU through provision of hands-on in line services, including but not necessarily limited to the following;

The Scope of Services includes;

Operational Efficiency:

- Evaluate the implementation and functionality of the Telecom System, Computerized Ticketing System, and Operation Headquarters and Train Control Center.
- Analyze the benefits and potential future opportunities of these systems on train scheduling, dispatching, and overall operational efficiency.

Maintenance Capacity:

- Assess the effectiveness of the new Workshop and Stores, Sleeper Tamping and Ballast Profiling Machine, Universal Armature Machine, Track Motor cars, Miniwagons, Rail Road Loaders, Ballast Profiling Machine, Hydraulic Crane, Rails, spare parts, and tools in enhancing maintenance capacity.
- Measure the reduction in maintenance downtime and cost savings achieved through improved equipment and facilities.
- Study the benefits and potential future opportunities

Railway Safety:

- Study the benefits and potential future opportunities of housing units for relocation, passenger facilities at key stations, and passenger seating facilities on enhancing railway safety and passenger experience.
- Assess the reduction in accidents, incidents, and disruptions attributable to the implemented safety measures.

Technical Training:

- Assess the effectiveness of the upgraded Technical Training Center, including the Train Simulator and SLGRTCC Generator, in enhancing the skills and capabilities of railway personnel.
- Measure the improvement in employee performance, competency levels, and adherence to safety protocols.
- Study the benefits and potential future opportunities.

Project Implementation Capacity:

- Evaluate the impact of strengthened project implementation capacity on the timely and efficient execution of REIP activities.
- Assess the effectiveness of implementation support, feasibility studies, and expert advisory roles in overcoming project challenges and enhancing readiness.
- Study the benefits and potential future opportunities.

A. Qualification & Experience

1. The consultant should have bachelor’s degree in civil engineering / Railway Transportation or equivalent. Having post graduate qualifications will be preferable. The consultant should have a minimum 10 years experience including 5 years of specific experience relevant to the assignment.

| No. | Title | Relevant Experience and Qualification | Positions | Person-Months/days |
|----------------------|--|---|-----------|---------------------------------|
| International | | | | |
| NC01 | National Expert- study the benefits and potential future opportunities from REIP to the railway sector | <ul style="list-style-type: none"> • The Expert should have strong analytical skills with experience of review/ program management/ evaluation of performance of infrastructure projects. • A Bachelor of Engineering / Technology (B.E. / B. Tech) and Post Graduate degree in Management (MBA/ PGDBM/ PGDM) is necessary. • Minimum General Experience- 10 Years • Minimum Specific Experience Relevant or similar 3 assignments • The Consultant shall also be computer literate in word processing and spreadsheets and shall be fluent in the written and spoken use of the Contract language which is English. | 1 | period of six months (132 Days) |

D. Consultant's Inputs

2. The assignment will be carried out over a period of 132 days (intermittent) of the consultant's input within an overall period of six months from the date of commencement by the individual consultant.

E. Output and Reporting Requirements

3. The consultant will carry out activities according to the following time schedule and submit reports about the activities and outputs.

Table 2: Reporting Requirements

- Develop a comprehensive study report of benefits and potential future opportunities detailing key findings, conclusions, and actionable recommendations for further improvements.
- Present the assessment results to relevant stakeholders, including Ministry of Transport and Highways, SLR management, Asian Development Bank (ADB) representatives, and other pertinent parties.
- Document best practices, success stories, areas for improvement, and potential future opportunities to guide future railway development initiatives.

| S. No. | Deliverable | Due Date | Payment Percentage |
|---------------|---|--|---------------------------|
| 1. | Benefit/ assessment framework | 20 days from date of award | 10% |
| 2. | preliminary assessment report | 2 months from date of award | 30% |
| 3. | Draft Final report submit and present | 5 months from date of award | 45% |
| 4. | Final Report (3 Hard copies and Digital copy) | 30 days after submission of final Study report | 15% |

E. Facilities provided by PMU

PMU will provide the Consultant with suitable office facilities, complete with internet connection in the PMU office. Transport will be provided only for the field visits if required.

L 3806: Railway Efficiency Improvement Project
 COST ESTIMATES FOR CONSULTANCY SERVICE

NATIONAL CONSULTANT STUDY THE BENEFITS AND POTENTIAL FUTURE
 OPPORTUNITIES FROM REIP TO THE RAILWAY SECTOR

(Expressed in US Dollars)

SUMMARY

| | | Total (USD) |
|---|---------|------------------------|
| <u>1. Consultants (Main)</u> | | 18,000 |
| Remuneration, traveling, printing, communication | 18,,000 | |
| <u>3. Contingency</u> | | 1,800 |
| <u>4. VAT</u> | 18% | 3,564 |
| Total Amount | | 23,364 |

NC-1: Remuneration, traveling, printing, communication

| Position | Qty | Number of Person- Months | Total Person- Months | Agreed Fixed Monthly Rate | Estimated Amount | |
|------------------|---|--------------------------------|----------------------------|------------------------------------|---------------------|--------|
| NC-01 | National consultant to study the benefits and potential future opportunities from REIP to the railway sector | Month | 6 | 6 | 3000 | 18,000 |
| Sub total | | Month | 6 | 6 | 18,000 | |