

Bangladesh Railway, Ministry of Railways
Government of Bangladesh

Terms of Reference

Consultancy Services for

CONSTRUCTION SUPERVISION
of

Construction of New Dual-Gauge Railway Line from Bogura to Sirajganj Project

Supported By

Asian Infrastructure Investment Bank (AIIB)

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INTRODUCTION

BACKGROUND

1. Bangladesh has emerged as one of South Asia's fastest-growing economies, backed by strong economic fundamentals and sustained development progress. With a population of approximately 175.7 million and a Gross Domestic Product (GDP) of USD 457.9 billion in 2025, Bangladesh is the second-largest economy in South Asia and is classified as a lower-middle-income country. Following more than a decade of high growth, averaging above 6 percent prior to the pandemic, the economy expanded by 4.2 percent in 2024¹. The strategic geographic location has positioned the country as an increasingly important connectivity and trade hub in South Asia. As such, enhanced transport connectivity, particularly railway connectivity, will not only improve mobility and logistics efficiency within Bangladesh but will also increase the country's connectivity appeal, supporting greater economic integration, trade competitiveness, and long-term investment attraction.

2. Bangladesh's railway sector faces structural challenges that constrain its contribution to economic growth and decarbonization. Bangladesh Railway (BR) operates a network of approximately 3,000 route-km, but the rail sector's share of total freight and passenger movement has remained below 4 percent, reflecting decades of underinvestment relative to the road network. Key constraints include indirect alignments on several key corridors that result in longer journey distances and times, ageing rolling stock, and limited signaling and telecommunications capacity.

3. In particular, BR continues to face connectivity constraints in the northwestern region of Bangladesh. This is due to indirect and inefficient rail links that connect this region to Dhaka and the eastern parts of the country. One such example is the rail services from Bogura and other northern districts (e.g., Rangpur, Gaibandha, Lalmonirhat, Kurigram), as the trains have to take a detour via Santahar–Natore–Ishwardi while traveling towards Dhaka or the eastern corridors. This would require an additional five hours for the people who are traveling via railway from the northern part of the country to the capital city. The BR has now decided to construct a dual-gauge railway line linking Sirajganj to Bogura to reduce approximately 112 km of the route for the people of Bogura, Gaibandha, Lalmonirhat, Kurigram, and other northern districts.

THE PROJECT

4. The '*Construction of New Dual Gauge Railway Line from Bogura to Sirajganj Project*' (hereinafter referred to as 'project') will construct a new strategic rail corridor linking Bogura with Sirajganj. The specific objective of the project is to create a shorter rail link between the northern parts of the country and the eastern/ southern parts via the capital city, Dhaka. The project will comprise mainly (a) construction of approximately 85.67 km of dual-gauge railway line connecting these two districts, together with bridges, culverts, and earthworks, (b) construction of 8 new stations along the corridor and the remodeling of 3 existing stations, and (c) installation of a computer-based interlocking (CBI) signaling system and associated telecommunications infrastructure.

5. By bypassing the existing circuitous alignment, the new corridor is expected to shorten the rail distance between the northern districts and Dhaka by more than 110 km and to cut travel time by approximately 4 hours for both passenger and freight services. Overall expected outcomes include significant journey-time reductions from Bogura and other northern districts; enhanced local connectivity between Bogura and Sirajganj; reduced operating costs for freight using the new line; and modal shift from road to rail with associated reductions in pollution and GHG emissions.

¹ World Bank Group, GDP Growth (Annual %) – Bangladesh; ([link](#))

IMPLEMENTING AGENCY AND REQUIRED SERVICE

6. The implementing agency of the Project is Bangladesh Railway under the Ministry of Railways (MoR). A Project Implementation Unit (PIU) is already in place in BR for executing the project. The Asian Infrastructure Investment Bank (AIIB) will be the financier of the Project. BR is planning to execute the Project through three (3) major civil works packages. These are:

SI No.	Package No.	Package Name/ Description
1.	WD1	Construction of DG Railway Track from Bogura to Chandaikona and Y connection from Ranirhat to Kahaloo including Construction/ Reconstruction of Station Buildings with associate works, Bridges, One Road Over Bridge (ROB) and other anchillary works including supply of all requisite materials, labor and equipment.
2.	WD2	Construction of DG Railway Track from Chandaikona to Sirajganj (upto Up Outer Signal of Saidabad Station) including Construction/ Reconstruction of Station Buildings with associate works, Bridges, one Rail flyover (RFO) as well as other ancillary works including supply of all requisite materials, labor and equipment.
3.	WD3	Supply, Installation, Testing & Commissioning of Computer Based Signaling & Interlocking System for 11 stations with other ancillary works.

7. A team of Construction Supervision Consultants (CSC; hereinafter referred to as 'Consultant') is planned to be engaged to support the PIU in supervising the construction works and overall implementation of the project. The CSC team will also coordinate with other concerned government agencies and local authorities, with the assistance of PIU and BR, for carrying out selected activities under the assignment.

OBJECTIVES OF THE SERVICE (CSC)

8. The key objectives of the CSC assignment are to:

- ensure high standards of quality assurance in the execution of works complying with BR and AIIB standards, and completion of work within stipulated time limits,
- conduct comprehensive supervision of project implementation activities carried out by the contractors, to ensure complete compliance with the drawings, technical specifications, and various stipulations in the contract documents,
- support the PIU in maintaining full compliance with National regulations and AIIB's Environmental and Social Framework (ESF), including the environmental and social (E&S) instruments prepared under the project.

9. The results to be achieved by the CSC consultant are as follows:

- Project implementation in a timely, efficient, and transparent manner in accordance with the requirements of the financing institutions, Fédération Internationale des Ingénieurs-Conseils (FIDIC) provisions, and Bangladeshi legislation in force;
- Project implementation within the governing framework of the financing institutions;
- Obtaining all construction documents in accordance with the Bangladesh legislation in force during the period of the project implementation;
- Transfer of know-how and training of the project staff in the management of multi-disciplinary projects.

ASSUMPTIONS

AVAILABLE FUNDING

10. The financing of the project is provided through a loan from AIIB. Monitoring of funds availability will be required throughout the period of implementation. The project financing arrangements may also be changed or supplemented during the project implementation period.

ACTING AS THE ENGINEER IN ACCORDANCE WITH THE FIDIC

11. The Bangladesh Railway ("the client"), through their nominated representative, Project Director and support staff of PIU, shall work in close coordination with the consultant concerning the management, administration and construction supervision of the Construction Contract Documents (CCD), including any technical support associated with approval of contractor submissions, and proposed design modifications as well as for overall testing and inspection of the works. This interaction between the parties shall facilitate the transfer of technology, management and administrative techniques, as well as technical knowledge related to the construction, operation, and maintenance of the facilities.

12. The client shall, prior to commencement of work by the consultant, designate in writing that the consultant shall have the authority of the 'engineer' with respect to CCD; and shall have the required authority to discharge those duties as defined in CCD and as generally described hereinafter. In the text to follow, the consultant shall be referred to as "The Engineer".

13. The Engineer shall not make any determinations under the Contracts without obtaining the prior approval of BR. The Engineer shall not take any decisions concerning constructions and materials, and the choice of subcontractors and suppliers without obtaining the prior approval of PIU.

14. The services to be provided by the Engineer shall be carried out by qualified project engineers, resident engineers, inspectors, and technicians, as well as E&S safeguard specialists, who are competent in the general type required and also competent and experienced in their own specific assignment or position on the project. The Consultant shall be responsible for properly monitoring the performance of the works contracts and adjusting their staff mobilization in view of not exceeding the contract value. No claims for additional payments arising from improper Consultant's staff input allocation will be accepted by BR.

CSC SERVICES ACCORDING TO BANGLADESHI LEGISLATION

15. The Consultant must be licensed in accordance with and under the provisions of the Bangladeshi legislation in force in order to undertake this service. The Consultant shall be responsible for the construction supervision of the project in accordance with this law. The Consultant shall be required to carry out the authorization, submittal receipt, review, and verification process and coordinate the process with BR during the construction and commissioning phase of the project. The Consultant should coordinate all reviews and approvals by BR during the construction phase and issue these formally to the Contractors.

COMMISSIONING AND TESTS

16. During the period of commissioning and testing, BR must inspect the Works in order to authorize commissioning of the Works. The Consultant will take part in the commissioning and will support it technically.

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SCOPE OF WORK

17. The scope of the services provided by the Consultant shall include all the services required from the Engineer as presently outlined and defined in the current CCD, except those duties retained by the client and specifically identified as such in the CCD.

18. The services to be provided by the Engineer shall cover the following tasks:

Task 1: Contract Management, Administration, and Planning

Task 2: Technical Support

Task 3: Construction Supervision, Testing and Inspection, Commissioning and Handover

Task 4: Environmental Aspects

Task 5: Gender and Social Aspects

Task 6: Resettlement Aspects

Task 7: Defect Notification Period

Task 8: Capacity Building and Information and Communication Technology (ICT) monitoring

19. These are distinct activities with separate objectives, but in practice, there will be overlap in data and knowledge to perform these tasks. It is important, however, to hold on to the sequence of these activities to reach an effective result in an efficient way, and the Consultant should come up with an approach to help to achieve the assignment objective as a team.

TASK 1: OVERALL CONTRACT MANAGEMENT, ADMINISTRATION, AND PLANNING

20. The management, administration, and planning of the works shall be under the direction of the Project Director of PIU and shall be carried out by qualified experts and office support staff. The tasks shall consist of the following, but not limited to:

- 1.1 Controlling and approving the Quality Assurance System and procedure/methodology prepared by the Contractors, based on the contractors' schedule, as well as the establishment of a detailed and computerized construction scheduling and cost control system;
- 1.2 Preparing an initial detailed project schedule in bar chart form and a critical path showing all of the major activities and the critical links between the activities for the implementation of the whole project;
- 1.3 Verifying the project schedule and detailed work plan submitted by contractors, identifying the critical path, and ensuring timely completion of the project by re-scheduling the work plan, if required;
- 1.4 Periodically and regularly updating the project schedule to monitor the actual vs. planned progress of the work, and including these updated schedules in the monthly reports;
- 1.5 Advising the Client on possible ways to accelerate the scheduled completion of the work and/or reduce costs where appropriate; and in a manner consistent with the overall contractual arrangements between the parties, to provide the same type of advice to the Contractors;
- 1.6 Establishing and monitoring the implementation guidelines for the appropriate E&S protection measures and procedures, and climate resilience and green measures, if any, including those related to community and occupational health and safety (OHS), to be undertaken by the contractor in accordance with the requirements as set out in CCD, and in compliance with the E&S policy requirements of AIIB;

- 1.7 Convening of weekly working meetings on-site with the Contractor, which shall include the senior personnel of both the contractor and the engineer. These meetings will be held to discuss the day-to-day construction activities, to review the progress of the work, and to resolve any problems, including changes to the work plan, supply of materials, quality control, and compliance with the specifications. The client may attend the weekly meetings, and the engineer shall take minutes of the meetings and provide copies to the contractor and the client;
- 1.8 Convening of the monthly progress review meeting in the main office with the contractor and the client;
- 1.9 Attendance and participation in any periodic meetings called by the client involving the project steering committee, project implementation committee, financing agencies, and others, including the contractor;
- 1.10 Provision of timely notification and documentation of any changes or conditions that may have an impact on the project schedule and/or budget, and including recommendations on the relevant measures that could be taken to mitigate any negative impact;
- 1.11 Reviewing and processing for submission to the Client for their approval all contract documentation with respect to interim and final payment certificates; reviewing and verifying contractors' payment applications, supporting documentation, quantities of completed works, and compliance with contractual requirements prior to certification of payments.
- 1.12 Preparation of the certificate of completion for the work or any significant part or parts thereof as provided for under CCD;
- 1.13 Review, evaluate, and recommend for the Client's approval any variations, change orders, and claims, including assessment of their technical justification, contractual basis, schedule implications, and cost impacts.
- 1.14 Management and coordination of the takeover of the site, reviewing and turnover of operations and maintenance manuals submitted by the contractor and/or individual suppliers.
- 1.15 Preparing project briefs or status papers from time to time as per the requirements of the client or financier.
- 1.16 Preparation of detailed monthly progress reports (MPRs), describing the construction activity, progress of the work including the supply of materials being manufactured or produced, current costs and cost projection to completion, progress of land acquisition and resettlement action plan (RAP) implementation, issues resolved and pending issues to be resolved, and any matters of an urgent nature requiring a decision by the client and/or financier;
- 1.17 Providing timely notification to the client of any necessary actions with regard to the client's duties and obligations in relation to permits, customs arrangements, approvals, relations with other agencies, coordination to commonly used facilities, provision of the site and associated facilities, and any contractual commitment on the part of the client to the contractor.
- 1.18 Advising the client about the adequacy of the contractor's insurance policies, performance bonds, indemnities, and ownership or rights to the construction plan and equipment requirements for the contract;
- 1.19 Maintaining close coordination with the contractor and the client regarding railway operation management during the construction of the new line;

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- 1.20 Monitoring the contractor's activities to ensure that there is full compliance with the overall contract requirements of E&S safeguards and to maintain a proper record of all E&S activities for inclusion in the MPRs, and monitoring and reporting GHG-related data as required by the financier.
- 1.21 Overseeing the implementation of RAP and monitoring the implementing NGO's (INGO) activities to ensure that there is full compliance with the approved RAP and to collect all necessary records and to review quarterly and annual reports prepared by INGO; Consultants must ensure that all payments are made with proper and appropriate estimates, as well as that no fraudulent practice is taken during implementation of RAP.
- 1.22 Handling construction disputes under the terms of the Contract;
- 1.23 Carrying out any other duties required under CCD;
- 1.24 Reviewing and turnover of the Contractor's "as-built drawings"
- 1.25 Commissioning of the works.

TASK 2: TECHNICAL SUPPORT

21. The Engineer shall provide sufficient qualified experts to carry out the necessary technical support for the proper execution of CCD. The tasks to be carried out shall include the following, but not limited to:

- 2.1 Undertaking detailed investigation and detailed design for any kind of new design and detailed estimate of the bridge/overpass/underpass required for the project within the tenure of the project and as directed by the Client.
- 2.2 Reviewing Contractor's designs and shop drawings and approving those after discussion with the Client; extension of time and claims from Contractors arising due to delays in such design/ drawing review and approvals will not be entertained.
- 2.3 Taking advance action where the Government Inspector of Bangladesh Railway (GIBR) approval is required.
- 2.4 Reviewing Contractor's proposed design modifications (including related specifications, if any) for the execution of the work and assessing the impact of such modifications on the project schedule and budget. Consultant shall identify the relevant measures that could be taken to mitigate any negative impact and check whether the proposed modification is technically sound and viable. These modifications are to be timely notified to the Client, and if they have an impact on the project schedule and/or budget, then the prior approval of the Client is required.
- 2.5 Reviewing the detailed design of the signaling and interlocking system submitted by the Contractor and submit a recommendation to the Client for approval. Timely notify the Client if any modification is required in the design of the signaling and interlocking system, and the impact of such modification on the project schedule and/or budget. Such modifications will require prior approval from the client.
- 2.6 Providing the necessary technical input with respect to the Engineer's review of the Contractor's proposed construction methodology, project procedure manual, including erection procedures and sequences, and the site-specific environmental and social management plan:

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- 2.7 Providing the necessary technical input in time with respect to the Engineer's review of various test results, both on and off the site.
- 2.8 Monitoring the site conditions and providing the necessary technical input with respect to any changed conditions.
- 2.9 Ensuring the safety of train operation, putting it as the 1st priority.
- 2.10 Ensuring coordination among site construction works for overall implementation of the project in a timely manner, ensuring quality, cost control, and safety.
- 2.11 Making recommendations to the Client with respect to design changes or modifications which could accelerate the completion of the work and/or result in cost savings;
- 2.12 Providing the necessary technical input with respect to the Engineer's review of the operation and maintenance (O&M) manuals submitted by the Contractor.
- 2.13 Providing the necessary technical input with respect to testing and commissioning of the work; and
- 2.14 Providing technical evaluation of the project after completion of the defect notification period.
- 2.15 Consultants will timely inform the Client about probable risks that may arise during the construction phase and also suggest remedial measures to mitigate the risks.

TASK 3: CONSTRUCTION SUPERVISION, TESTING & INSPECTION

22. The Consultant shall provide necessary resident engineers, E&S specialists, inspectors, field staff, including office support staff, for the direct supervision of the Contractor under CCD, including all required field and laboratory testing, site inspection, and supervision. The resident staff shall be under the direction of the Team Leader. The tasks of the supervision consultant to be carried out shall include the following, but not limited to:

- 3.1 Establish the basic survey control and carry out all necessary control and check surveys, and carry out joint pre-construction survey with the Contractor for quantity determination, which are the responsibility of the Engineer under the terms of the CCD:
- 3.2 Carry out all necessary inspection and testing of materials directly and/or manufactured for use in the temporary or permanent works.
- 3.3 Inspect the work or test as requested by the Contractor through RFI (request for inspection). However, the consultant's visit to the site shall not be limited to when an RFI is received only, and the consultant will need to inspect the site periodically. Failure of the Contractor to submit an RFI on a timely basis does not absolve the consultant of their duty to inspect and supervise the site;
- 3.4 Review the test results done by the Contractor and execution of independent testing to ensure satisfactory performance of the Contractor and the execution of the Project in accordance with the CCD and sound engineering practices.
- 3.5 Check and test the sources of materials and machinery proposed for use in the temporary and permanent Works.

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- 3.6 Supervise and monitor the Contractor's implementation of the site-specific/ contractors' Environmental and Social Management Plan covering community and occupational health and safety as per the CCD and the guidelines of AIIB.
- 3.7 Review and approve all construction work plan & schedules, methods and procedures, including specific erection methods and sequences.
- 3.8 Check drawings produced by the Contractor as necessary for the proper execution of the temporary and permanent Works, including shop and working drawings;
- 3.9 Check the construction and erection schemes/proposals proposed by the Contractor to be implemented in the execution of the CCD.
- 3.10 Check and record the interim measurements of quantities of the Works completed to assess and issue appropriate interim payments in accordance with CCD, as well as to assess progress achieved.
- 3.11 Supervise all site investigations undertaken by the Contractor, either as required under the Terms of the CCD or as otherwise necessitated for the proper execution of the Works.
- 3.12 Issue all necessary instructions to the Contractor as required under the terms of the CCD, specifically with respect to accidents, emergency measures, and protection of the Works;
- 3.13 Evaluate and determine any changed conditions, such as foundation conditions, the suitability of designated materials, or the optimization of the design.
- 3.14 Accept or reject the work or any part thereof as constructed by the Contractor in accordance with CCD;
- 3.15 Issue instructions to the Contractor with respect to carrying out on-site or off-site tests and record the same, including the supervision and verification of such tests; and
- 3.16 Record in detail all construction activity and test results.

TASK 4: ENVIRONMENTAL ASPECTS

23. The scope of works under this aspect includes, but is not limited to:
 - 4.1 Review the Environmental Impact Assessment (EIA), including the EMP and Environmental and Social Due Diligence (ESDD) documents, prepared for the project;
 - 4.2 Update the EMP if there are any changes in the project sites or any evolving environmental conditions and corresponding mitigation measures;
 - 4.3 Prepare monitoring checklists for periodic monitoring (as necessary) of EMP implementation by the contractor;
 - 4.4 Conduct coordination cum training, workshop/ meeting with participation from BR and the contractors on requirements and implementation of the EMP.
 - 4.5 Monitor implementation of the EMP by the contractor periodically (as necessary) and, in doing so, complete the monitoring checklists.
 - 4.6 Provide on-the-job or on-site technical advice to the contractors where necessary while implementing the EMP;

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- 4.7 Prepare Environmental Monitoring report and Due Diligence Report semi-annually and as and when necessary for submission to BR and AIIB;
- 4.8 Disclose/ support PIU in disclosing environmental issues during construction following consultation with BR and AIIB.
- 4.9 Facilitate consultations between the contractor and local community or other relevant agencies and address grievances (if any and where necessary);
- 4.10 Support the PIU and contractors in obtaining annual environment clearances from the concerned government agency(ies) of Bangladesh.
- 4.11 Maintain a copy of all environments related statutory clearances required for the implementation of the project and EMP; and
- 4.12 Monitor and report GHG-related data as required by the financier (if requested).

TASK 5: GENDER AND SOCIAL ASPECTS

24. The scope of work under this aspect includes, but is not limited to:
 - 5.1 Review the Gender and Social Inclusion Plan (GSIP), including any other social instrument/ mitigation plan prepared for the project, integrate gender and social measures in the project design, and follow the requirements of mitigation and monitoring following AIIB's Environmental and Social Framework (ESF), including the Environmental and Social Policy (ESP) and Environmental and Social Standards (ESSs);
 - 5.2 Prepare monitoring checklists for periodic monitoring (as necessary) of the Gender and Social Inclusion Plan (GSIP) implementation.
 - 5.3 Conduct coordination cum training, workshop/meeting with participation from BR and the contractors on the requirements and implementation of the GSIP;
 - 5.4 Monitor implementation of the GSIP, including other social aspect mitigation plan periodically (as necessary) and in doing so complete the monitoring checklists.
 - 5.5 Monitor implementation of the HIV AIDS awareness program by the Contractor on a periodic basis (as necessary) and in doing so, complete the monitoring checklists. and
 - 5.6 Prepare due diligence report on GSIP, including other social aspect mitigation plans in compliance with AIIB's ESF (Incl. ESP and ESSs) as and when necessary for submission to BR, AIIB.

TASK 6: RESETTLEMENT ASPECTS

25. The scope of the work includes, but is not limited to:
 - 6.1 Provide support to the engineering team during construction in minimizing social and resettlement impacts of the projects, advise on any changes in the modalities of implementation of works, and ensure implementation of social measures of the site-specific/ contractor's ESMP, including community and occupational health and safety;
 - 6.2 Ensure that the social and resettlement issues are properly addressed as per the approved RAP, Stakeholder Engagement Plan (SEP), and the Income and Livelihood Restoration Plan (ILRP), and in compliance with AIIB's ESF, including ESP and ESSs;

- 6.3 Oversee and monitor the work of the Implementing NGO (INGO) to be engaged by the Employer to implement the RAP;
- 6.4 Review the progress reports/ social due diligence reports prepared for the project as per the guidelines of AIIB's ESF, including ESP and ESSs, and provide comments to BR.
- 6.5 Provide training on AIIB's ESF, including ESP and ESSs, to BR PIU, local, and INGO officials.
- 6.6 Provide inputs and facilitate effective functioning of various committees associated with RAP implementation, such as Grievance Redress Committees (GRCs), Property Valuation Advisory Committee (PVAC), etc., as may be necessary.
- 6.7 Arrange site visits and meetings, prepare presentations, briefs, and status papers regarding implementation of RAP, as and when requested by PIU/ AIIB.

TASK 7: DEFECT NOTIFICATION PERIOD

- 26. The scope of the work includes, but is not limited to:
 - 7.1 Conduct frequent site inspections during the defect notification period to ensure corrective measures are taken by the Contractor in accordance with CCD if any defect is identified from a technical and E&S point of view.
 - 7.2 Ensure clearance of the site in accordance with CCD;
 - 7.3 Check the Contractor issued for the taking over certificate and assist the Employer during the taking-over in accordance with CCD;
 - 7.4 Issue the performance certificate within 28 days after the latest of the expiry date of the defect notification period, with a copy to the Employer in accordance with CCD;
 - 7.5 Issue a payment certificate in accordance with CCD;
 - 7.6 Prepare and submit the Project Completion Report along with completion drawings within one month of the completion of the Works.

TASK 8: CAPACITY BUILDING AND ICT MONITORING

- 27. The scope of the work includes, but is not limited to:
 - 8.1 Conduct a training needs assessment for BR. Prepare a plan for conducting at least four (4) prioritized trainings for 60 nos. BR staff and obtain BR approval with a scheduled timeline.
 - 8.2 Organize the training events in BR/ agreed locations by PIU and at the site, and monitor the quality of the training to ensure that the training is sufficient to transfer the technology effectively. The training will be held in English, with all supporting materials written in English and Bengali. Travel, daily allowances, accommodation, and all other expenses incurred by the training participants during the training shall be borne by the Consultant.
 - 8.3 Arrange three (03) overseas technology transfer events in developed countries for the 6 participants (each event) from BR, subject to MoR approval. The Consultant will submit a detailed tour program to PIU for approval.

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8.4 The Consultant shall, if requested by Bangladesh Railway, provide an ICT-based project monitoring platform on a subscription or on-demand basis to strengthen construction supervision and project management. The platform shall, at a minimum, support the following:

- Cloud-based field monitoring for recording site visits, inspections, geo-tagged photographs, observations, and corrective actions through web and mobile applications.
- Digital progress monitoring and reporting, including strip charts, package-wise physical progress, milestone tracking, executive dashboards, and automated management reports.
- Centralized data management and hosting, including secure cloud hosting, user management, routine system maintenance, technical support, and periodic system enhancements throughout the assignment and based on PIU requirements.
- AI-based monitoring system that will ensure the physical presence of consultants staffs in all sites with remote monitoring facilities.

REQUIRED EXPERTISE

28. The assignment will be carried out over a period of 48 months (including the Defect Notification stage) from the effective date. It is anticipated that about 234 man-Months of input by international experts² and 1218 man-months of input by national experts will be required.

KEY EXPERTS

29. All experts who have a crucial role in implementing the contract are referred to as key experts. Under this assignment, a total of Seventeen (17) experts have been considered as key experts.

NON-KEY EXPERTS

30. CVs of Non-Key Experts are not required to be submitted with the proposal and will not be evaluated during the technical evaluation. Following the contract award, the Consultant shall propose suitably qualified Non-Key Experts meeting the minimum qualification requirements specified in the ToR. Such experts shall be subject to the Client's review and approval prior to mobilization.

ADHOC EXPERTISE

31. The consultant shall provide high-level supporting expertise from HQ to support the team whenever required and upon approval of BR.

32. The Consultant shall select and hire other experts as required. These profiles must indicate whether they are to be regarded as long-term/short-term, internationally experienced experts/nationally experienced experts, and senior/junior so that it is clear which fee rate in the budget breakdown will apply to each profile.

33. The Consultant should pay attention to the need to ensure the active participation of local professional skills where available, and a suitable mix of international and local staff in the project teams. All experts must be independent and free from conflicts of interest in the responsibilities accorded to them.

² In general, experts with significant professional experience gained outside their country of nationality and/or on international projects are considered international experts.

34. The selection procedures used by the Consultant to select these other experts shall be transparent and shall be based on pre-defined criteria, including professional qualifications, language skills, and work experience. The selection of experts shall be subject to approval by BR.

35. Note that civil servants and other staff of the public administration of Bangladesh cannot be recruited as experts.

SUPPORT STAFF

36. Support staff to be employed at the Consultant's discretion may include:

- a) Office managers
- b) Legal advisors
- c) Translators
- d) Accountants
- e) Computer systems administrators
- f) Office Administration Staff and drivers

STAFFING REQUIREMENTS

37. The Consultant team's composition and expected person-months are provided in the following tables.

Table 1: Expected Staff and Corresponding Man-month

SL.	Key/ Non-Key	Job Title	Nos	Man Month	Total Man Month
A. Experts with International Experience					
IE1	Key	Team Leader	1	48	48
IE2	Key	Resident Senior Signaling & Telecommunication Engineer	1	12	12
IE3	Key	Resident Senior Structural Engineer	1	18	18
IE4	Key	Resident Senior Track Engineer	1	18	18
IE5	Key	Senior Contract Specialist	1	36	36
IE6	Key	Resident Senior Geotechnical Engineer	1	12	12
IE7	Key	Resident Senior Bridge Engineer	1	18	18
IE8	Non-Key	Resident Senior Earthwork Engineer	1	12	12
IE9	Non-Key	Resident Senior Quality Control Engineer	1	36	36
IE10	Non-Key	Resident Senior Quantity Surveyor	1	24	24
Total Experts with International Experience			10		234
B. National Experts					
NE1	Key	Deputy Team Leader	1	48	48
NE2	Key	Railway Track Engineer	2	24	48
NE3	Key	Structural Engineer	2	36	72
NE4	Non-Key	Geotechnical Engineer	1	24	24
NE5	Key	Embankment and Earthwork Engineer	1	24	24
NE6	Key	Signaling & Telecommunication Engineer/ System Integration Engineer	2	24	48
NE7	Key	Bridge Engineer	1	36	36
NE8	Non-Key	Contract Specialist	1	24	24
NE9	Key	Quantity Surveyor	1	48	48

SL.	Key/ Non-Key	Job Title	Nos	Man Month	Total Man Month
NE10	Key	Quality Control Engineer	2	36	72
NE11	Non-Key	Junior Railway Track Engineer	2	24	48
NE12	Non-Key	Planning & Scheduling Specialist	1	36	36
NE13	Non-Key	Junior Embankment and Earthwork Engineer	2	24	48
NE14	Non-Key	Electrical Engineer	1	24	24
NE15	Non-Key	Junior Bridge Engineer	2	36	72
NE16	Non-Key	Junior Quality Control Engineer	2	36	72
NE17	Key	Senior Social Safeguard Specialist	1	36	36
NE18	Key	Senior Environment Specialist	1	36	36
NE19	Non-Key	Gender Specialist	1	36	36
NE20	Non-Key	Health & Safety Specialist	1	36	36
NE21	Non-Key	Junior Environment Officer	1	36	36
NE22	Non-Key	Junior Social Safeguard Officer	1	36	36
NE23	Non-Key	Senior Survey Engineer	1	18	18
NE24	Non-Key	Junior Survey Engineer	2	24	48
NE25	Non-Key	Junior Quantity Surveyor	2	24	48
NE26	Non-Key	Site Engineer	4	36	144
Total National Experts			39		1218
Total International + National Experts			49		1452

STAFF PROFILES

Table 2: Required Profile of Experts with International Experience

SL.	K/NK	Job Title	Qualifications Requirements
IE1	Key	Team Leader	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Civil Engineering or equivalent relevant degree - At least 15 years and preferably 20 years of general/ professional experience <u>Specific Experience</u> - At least 10 years and preferably 15 years of similar experience in Railway field - At least 2 and preferably 3 experiences as Project Manager/Team Leader in Railway Project supervision. <u>Experience in the region, with MDB and language</u> - Having experience in Asia region will be considered as an added advantage - At least 2 and preferably 3 experiences working in multilateral development institutions Organizations (MDB, bilateral agencies or similar) funded similar projects will be considered as an added advantage. - Substantial experience in FIDIC based international contract management will be preferable. - Full proficiency in English, including report writing and

SL.	K/NK	Job Title	Qualifications Requirements
			stakeholder consultation skills.
IE2	Key	Resident Senior Signaling & Telecommunication Engineer	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Electrical/Electronics/Telecommunication Engineering or equivalent relevant degree - At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 5 experiences in a similar position in Railway Project supervision.
IE3	Key	Resident Senior Structural Engineer	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Civil Engineering or equivalent relevant degree - At least 15 years and preferably 20 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 4 experiences in works supervision of transport project in a similar position - At least 2 and preferably 3 experiences in a similar position in Railway Project supervision.
IE4	Key	Resident Senior Track Engineer	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Civil Engineering or equivalent relevant degree - At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 5 experiences in a similar position in Railway Project supervision.
IE5	Key	Senior Contract Specialist	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Engineering or legal or equivalent relevant degree - At least 15 years and preferably 20 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 4 experiences in works supervision of transport project in a similar position 1 experience in a similar position in Railway Project supervision will be considered as an added advantage. - Minimum 5 years' and preferably 8 experiences as Contract Specialist under experience in Red FIDIC based international contract management.

SL.	K/NK	Job Title	Qualifications Requirements
IE6	Key	Resident Senior Geotechnical Engineer	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Civil Engineering or equivalent relevant degree - At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 4 experiences in works supervision of transport project in a similar position - At least 1 and preferably 2 experiences in a similar position in Railway Project supervision.
IE7	Key	Resident Senior Bridge Engineer	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Civil Engineering or equivalent relevant degree - At least 15 years and preferably 20 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 4 experiences in works supervision of transport project in a similar position - At least 2 and preferably 3 experiences in a similar position in Railway Project supervision.
IE8	Non-Key	Resident Senior Earthwork Engineer	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Civil Engineering or equivalent relevant degree - At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 4 experiences in works supervision of transport project in a similar position - At least 1 and preferably 2 experiences in a similar position in Railway Project supervision.
IE9	Non-Key	Resident Senior Quality Control Engineer	<u>General Qualifications and experience</u> - At least BSc and preferably MSc in Civil Engineering or equivalent relevant degree - At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 4 experiences in works supervision of transport project in a similar position - At least 1 and preferably 2 experiences in a similar position in Railway Project supervision.
IE10	Non-Key	Resident Senior	<u>General Qualifications and experience</u>

SL.	K/NK	Job Title	Qualifications Requirements
		Quantity Surveyor	▪ BSc in Engineering or any relevant subject ▪ At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> ▪ At least 3 and preferably 4 experiences in a similar position in Transport Project supervision. ▪ At least 2 and preferably 3 experiences in a similar position in Railway Project supervision.

38. In addition to the above, all International Experts (IE2–IE9) shall meet the following common qualification requirements.

Experience in the region and language

- Having experience in the Asia region will be considered as an added advantage
- Full proficiency in English, including report writing and stakeholder consultation skills.

Table 3: Required Profile of National Expert

SL.	K/NK?	Job Title	Qualifications Requirements
NE1	Key	Deputy Team Leader	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in Civil Engineering or equivalent relevant degree ▪ At least 15 years and preferably 20 years of general/professional experience <u>Specific Experience</u> ▪ At least 10 years and preferably 15 years of similar experience in Transport field ▪ At least 2 and preferably 3 experiences as Deputy Team Leader/Project Manager/Team Leader in Railway Project supervision. ▪ Substantial experience in FIDIC based international contract management will be preferable. ▪ At least 2 and preferably 3 experiences working in multilateral development institutions Organizations (MDB, bilateral agencies or similar) funded similar projects.
NE2	Key	Railway Track Engineer	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in Civil Engineering or equivalent relevant degree ▪ At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Railway Project supervision.
NE3	Key	Structural	<u>General Qualifications and experience</u>

SL.	K/NK?	Job Title	Qualifications Requirements
		Engineer	▪ BSc and preferably MSc in Civil Engineering or equivalent relevant degree ▪ At least 8 years and preferably 12 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. ▪ At least 1 experience in a similar position in Railway Project supervision.
NE4	Non-Key	Geotechnical Engineer	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in Civil Engineering or equivalent relevant degree ▪ At least 8 years and preferably 12 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. ▪ At least 1 experience in a similar position in Railway Project supervision.
NE5	Key	Embankment and Earthwork Engineer	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in Civil Engineering or equivalent relevant degree ▪ At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. ▪ At least 1 experience in a similar position in Railway Project supervision.
NE6	Key	Signaling & Telecommunication Engineer/System Integration Engineer	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in electrical Engineering or equivalent relevant degree ▪ At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. ▪ At least 1 experience in a similar position in Railway Project supervision.
NE7	Key	Bridge Engineer	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in Civil Engineering or equivalent

SL.	K/NK?	Job Title	Qualifications Requirements
			relevant degree - At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> - At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. - At least 1 experience in a similar position in Railway Project supervision.
NE8	Non-Key	Contract Specialist	<u>General Qualifications and experience</u> - BSc and preferably MSc in Engineering or legal or equivalent relevant degree - At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> - At least 3 and preferably 4 experiences in a similar position in Transport Project supervision. - Minimum 5 years' and preferably 8 experiences as Contract Specialist under experience in Red FIDIC based international contract management. - At least 1 and preferably 2 experiences working in multilateral development institutions Organizations (MDB, bilateral agencies or similar) funded similar projects will be considered as an added advantage.
NE9	Key	Quantity Surveyor	<u>General Qualifications and experience</u> - BSc and preferably MSc in Civil Engineering or any relevant subject - At least 8 years and preferably 12 years of general/professional experience <u>Specific Experience</u> - At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. - At least 1 experience in a similar position in Railway Project supervision.
NE10	Key	Quality Control Engineer	<u>General Qualifications and experience</u> - BSc and preferably MSc in Civil Engineering or any relevant subject - At least 8 years and preferably 12 years of general/professional experience <u>Specific Experience</u> - At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. - At least 1 experience in a similar position in Railway Project

SL.	K/NK?	Job Title	Qualifications Requirements
			supervision.
NE11	Non-Key	Junior Railway Track Engineer	<u>General Qualifications and experience</u> ▪ BSc in Civil Engineering or equivalent relevant degree having 05 years of general/ professional experience and generally 03 years of similar experience in railway track supervision projects OR ▪ Diploma in Civil engineering having 10 years of experience in railway supervision project.
NE12	Non-Key	Planning & Scheduling Specialist	<u>General Qualifications and experience</u> ▪ BSc in Engineering or Management or any relevant subject ▪ At least 8 years and preferably 12 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Transport Project supervision.
NE13	Non-Key	Junior Embankment and Earthwork Engineer	<u>General Qualifications and experience</u> ▪ BSc in Civil Engineering or equivalent relevant degree having 05 years of general/professional experience and generally 03 years of similar experience in railway track/ transport supervision projects OR ▪ Diploma in Civil engineering having 10 years of experience in railway/transport supervision project.
NE14	Non-Key	Electrical Engineer	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in Electrical Engineering or equivalent relevant degree ▪ At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Transport Project supervision. ▪ Experience in renewable energy will be an advantage.
NE15	Non-Key	Junior Bridge Engineer	<u>General Qualifications and experience</u> ▪ Graduate in Civil Engineering or equivalent relevant degree having 05 years of general/ professional experience and generally 03 years of similar experience in design/ supervision in bridge/ structural field
NE16	Non-Key	Junior Quality Control Engineer	<u>General Qualifications and experience</u> ▪ BSc in Civil Engineering or equivalent relevant degree having 05 years of general/ professional experience and generally 03 years of similar experience in railway/ transport supervision projects OR

SL.	K/NK?	Job Title	Qualifications Requirements
			▪ Diploma in Civil engineering having 10 years of experience in railway/ transport supervision project.
NE17	Key	Senior Social Safeguard Specialist	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in relevant discipline (i.e., Social Sciences) ▪ At least 10 years and preferably 15 years of general/ professional experience <u>Specific Experience</u> ▪ At least 3 and preferably 4 experiences in a similar position in Works supervision. ▪ At least 2 and preferably 3 experiences working in multilateral development institutions Organizations (MDB, bilateral agencies or similar) funded similar projects.
NE18	Key	Senior Environment Specialist	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in Civil Engineering, environmental sciences, biology or equivalent relevant degree ▪ At least 10 years and preferably 15 years of general/professional experience <u>Specific Experience</u> ▪ At least 3 and preferably 4 experiences in a similar position in Works supervision. ▪ At least 2 and preferably 3 experiences working in multilateral development institutions Organizations (MDB, bilateral agencies or similar) funded similar projects.
NE19	Non-Key	Gender Specialist	<u>General Qualifications and experience</u> ▪ BSc and preferably MSc in relevant discipline ▪ At least 8 years and preferably 12 years of general/professional experience <u>Specific Experience</u> ▪ At least 2 and preferably 3 experiences in a similar position in Works supervision. ▪ Experiences working in multilateral development institutions Organizations (MDB, bilateral agencies or similar) funded similar projects will be considered as an added advantage.
NE20	Non-Key	Health & Safety Specialist	<u>General Qualifications and experience</u> ▪ Graduate in Civil Engineering having certificate in Health, Safety and Environment (HSE) related course ▪ At least 8 years and preferably 12 years of general/ professional experience <u>Specific Experience</u>

SL.	K/NK?	Job Title	Qualifications Requirements
			8 years of working experience in the related field - At least 2 and preferably 3 experiences in transport project - Any experience in a rail work supervision would be considered as an advantage - Experiences working in multilateral development institutions Organizations (MDB, bilateral agencies or similar) funded similar projects will be considered as an added advantage
NE21	Non-Key	Junior Environment Officer	<u>General Qualifications and experience</u> - BSc and preferably MSc in Civil Engineering, environmental sciences, biology or equivalent relevant degree - At least 5 years of general experience <u>Specific Experience</u> - At least 1 experience in a similar position in Transport Project supervision.
NE22	Non-Key	Junior Social Safeguard Officer	<u>General Qualifications and experience</u> - BSc and preferably MSc in relevant discipline (i.e, Social Sciences) - At least 5 years of general experience <u>Specific Experience</u> - At least 1 experience in a similar position in Transport Project supervision.
NE23	Non-Key	Senior Survey Engineer	<u>General Qualifications and experience</u> - Graduate in Civil Engineering or relevant equivalent degree 15 years of general/ professional experience and 08 years of similar experience in large Transport projects with minimum 05 years of experience as Survey Engineer. - Working experience in international organizations or MDB's funded projects will be considered as added advantages.
NE24	Non-Key	Junior Survey Engineer	<u>General Qualifications and experience</u> - Graduate in Civil Engineering or relevant equivalent degree 6 years of general/ professional experience and 4 years of similar experience in large Transport Infrastructure field with minimum 3 years of experience as Survey Engineer. - Working experience in international organizations or MDB's funded projects will be considered as added advantages.
NE25	Non-Key	Junior Quantity Surveyor	<u>General Qualifications and experience</u> - Graduate in Civil Engineering or relevant equivalent degree 6 years of general/ professional experience and 4 years of similar experience in large Transport Infrastructure field

SL.	K/NK?	Job Title	Qualifications Requirements
			with minimum 3 years of experience as Survey Engineer. Working experience in international organizations or MDB's funded projects will be considered as added advantages.
NE26	Non-Key	Site Engineer	<u>General Qualifications and experience</u> - BSc in Engineering or any relevant subject - At least 5 years of professional experience <u>Specific Experience</u> - At least 1 experience in a similar position in Transport Project supervision.

LOGISTICS AND SERVICE DURATION

LOCATION

39. The base of operations shall be Dhaka. The Consultant shall establish offices near the PIU in Dhaka after consultation with the PIU.

COMMENCEMENT DATE & PERIOD OF EXECUTION

40. The Commencement shall be as stated in the Special Conditions.

- The mobilization period will be up to one (1) month
- The period for control over the construction services by the Consultant will be **thirty-six (36)** months.
- The defects notification period services by the Consultant will be **twelve (12)** months commencing upon the issue of the final taking over certificate for the Works contracts.

41. The Consultant shall properly manage and allocate his staff's input so that it is sufficient at any time during the project implementation and the overall contract price of his contract is not exceeded.

OFFICE ACCOMMODATION

To be provided by the Contractor

OFFICE MAINTENANCE

To be provided by the contractor

TRANSPORT

To be provided by the Contractor

FACILITIES TO BE PROVIDED BY THE CONSULTANT

42. The Consultant shall ensure that experts are adequately supported and equipped. In particular, it shall ensure that there is sufficient administrative, secretarial, and interpreting provision to enable experts to concentrate on their primary responsibilities. It must also transfer funds as necessary to support its activities under the contract and to ensure that its employees are paid regularly and in a timely fashion.

43. Support Staff: Consultants will provide support staff required to operate and maintain the offices.

REPORTING REQUIREMENTS

44. The Consultant will provide the following reports and documents as hard copies, together with one electronic copy in Bengali and one electronic copy in English. The hard copies should be submitted to BR (06 copies).

INCEPTION REPORT

45. The Consultant shall prepare an Inception report up to the end of the first month of the contract. This report will be discussed and approved by the PIU and AIIB.

DESIGN REVIEW REPORT

46. The Consultant shall undertake a comprehensive review of all design documents prepared for the project, including but not limited to plan and profile drawings, civil works drawings, structural designs, construction drawings, technical specifications, design calculations, and associated reports. The review shall assess the completeness, constructability, consistency, compliance with applicable codes and standards, safety requirements, environmental and social commitments, and compatibility with site conditions. The Consultant shall identify any design deficiencies, omissions, inconsistencies, or risks that may affect construction, operation, maintenance, cost, quality, or schedule. Based on the review, the Consultant shall prepare and submit Design Review Reports containing observations, recommendations, proposed design modifications (where required), and confirmation of readiness for construction.

QUALITY ASSURANCE PLAN

47. The Consultant will prepare his Quality Assurance Plan for the services to be provided under the Supervisory Contract. The Quality Assurance Plan will be subject to approval by BR.

MONTHLY PROGRESS REPORTS

48. The Consultant will prepare and submit monthly reports stating the progress of the project, financial status, and actions required to facilitate the works. The reports will summarize all activities undertaken by the Consultant and Contractor, including the various construction activities (actual progress vs. scheduled progress). They should include the weekly reports of each of the experts and their timesheets, as well as copies of passports certifying their stay in Bangladesh. They should show the quantitative progress. The report shall also include the evaluation of any problems or disputes. In addition, the Consultant is required to attach a schedule of the estimated working days per week for each of the experts for the next period, providing information about the work to be performed by each expert.

49. The reports shall further include graphs and tables, which will enable interested parties to obtain an updated picture of the stage of completion of the project as well as the progress achieved during the previous period. The reports will contain a comparison between the Contract Provision as per BOQ and the quantity of work done, as well as a comparison between the targeted scope of work and actual work done. Monthly progress reports shall also highlight any actual or contemplated major deviations from the original plans or schedules and shall outline the reasons for the deviations. These reports shall be as brief as possible and shall be issued within 7 days of the end of each month.

50. The Monthly Progress Reports will be subject to approval by the PIU. The MPR will sufficiently capture all E&S implementation details per AIIB requirements. The Consultants shall

assist BR to develop monthly and quarterly progress reports of each sub-project for submission to the Implementation Monitoring and Evaluation Division (IMED), Planning Commission, and other relevant Government bodies.

DUE DILIGENCE/SEMI-ANNUAL PROGRESS REPORTS

51. The Consultant will prepare and submit due diligence report/ semi-annual Progress Reports stating the progress of the project, design submission status, financial status, and actions required to facilitate the works. The report shall also include the evaluation of any problems or disputes. Each report should describe the progress of construction works, the activities implemented by the Consultant, and the work performed by each of the Consultant's experts. Each report shall also include a precise excerpt from the project's financial status, in accordance with the funding sources, and the project program.

52. In addition, the Consultant should prepare a semiannual E&S monitoring report following the financier guidelines and submit it to the PIU. The semiannual Progress Reports will be subject to approval by BR.

FINAL REPORT

53. The Consultant will prepare and submit the Final Report for each package and as a combined of all packages, describing the project, collating the list of design and construction submissions, financial status and outstanding payments, problems which occurred on the project, and the as-built program for the project. The Consultant should collate the working and as-built designs. The Final Report shall be an accurate record of the project, including progress records, payments, variations and disputes, materials incorporated in the works, and any problems or incidents occurring in or about the works. The report should include an accounting part, where the materials, quantities, and prices for them during the project should be detailed. The report should also include a socio-economic analysis of the results achieved from the realization of the project. The Final Report is subject to approval by PIU.

RECORDS ON THE PROGRESS OF THE WORKS

54. Throughout the period of the works, the Consultant will maintain detailed records, including daily records of the progress of the works and of any problems or incidents occurring on or about the site, and will submit one copy of all records to the Project Beneficiary.

OTHER REPORTS

55. Any other reports required by BR and AIIB to be provided are required under the scope of services.

CLIENT'S INPUT AND COUNTERPART PERSONNEL

SERVICES, FACILITIES, AND PROPERTY TO BE MADE AVAILABLE

56. The client will provide the Consultant with the following:

- Access to data, records, and other information required to perform the assigned tasks;
- Counterpart staff and engineers to work with the Consultant;
- Provide the Consultant and each of the personnel with work permits and other documents as necessary;
- Assist in obtaining the necessary visa for the personnel and, if appropriate, their eligible dependents;

- Assist in the clearance through customs of any property required for the services and of the personal effects of the personnel and their eligible dependents;
- Issue to officials, agents, and representatives of the Government all such instructions as may be necessary or appropriate for the prompt and effective implementation of the services.

PROFESSIONAL AND COUNTERPART PERSONNEL

57. Project Director and other officers of different capacities of the PIU will act as support counterpart personnel to the Consultant's team.

ACTIONS REQUIRING PRIOR APPROVAL

58. The Consultant, while acting as the Engineer of the Civil Works Contract, shall obtain specific approval of the Employer before taking the following actions:

- Agreeing to the modification of drawings that have implications on the construction schedule and cost.
- Agreeing on the design and drawings of the Signaling and Interlocking System.
- Agreeing or determining an extension of time and/or additional cost.
- Instructing a variation except
 - In an emergency situation as determined by the Engineer,
 - If such a variation would increase the accepted contract amount by less than the percentage specified in the Contract data of Civil Works Contract.
- Approving a proposal for variation submitted by the Contractor
- Specifying the amount payable in each of the applicable currencies

59. Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or the Works or of adjoining property, the Engineer may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk.

60. The Engineer has no authority to relieve the Contractor or Employer of any duties, obligations, or responsibilities under the Civil Works Contract.

Handwritten mark

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