Request for Expressions of Interest (REOI)

(Consulting Services – Selection of Firms)

Country: Republic of Indonesia

Client: Directorate General of Highways, Ministry of Public Works and Housing

Project: Finance Facility of the Multilateral Cooperation Center for Development Finance (MCDF) for the Preparation of Trans Sumatera Toll Road (Cinto Kenang to Sentjalang) Project

Grant No. S628MA

Contract/Assignment Title: Consultancy Services for Strategic Environmental and Land Use Development along Phase 2 of the Trans Sumatera Toll Road

REOI Reference No: PB0301/POKJA.33.E.2024/DJBH.BM-JK/04

1. The Republic of Indonesia has received financing from the Asian Infrastructure Investment Bank (AIIB or the Bank), as implementing partner to MCDF, toward the cost of the Project Preparation Grant of Trans Sumatera Toll Road (Cinto Kenang – Sentjalang) Project which will be extended into Sp. Ness – Sentjalang and intends to apply part of the proceeds for consulting services.

2. The consulting services ("the Services") provide a study or assessment to integrate environmental and social considerations into land use planning along the Trans Sumatera Toll Road alignment (phase 2) and analyze the secondary impacts of the toll road development on potential land use changes. The services are to ensure environmental and social considerations are integrated into the land use planning and development along phase 2 of Trans Sumatera Toll Road.

   The scope of work includes 3 stages involving 8 tasks:

A	**Stage 1 – Establishing the context for SESA (Strategic Environmental and Social Assessment)**	
1	Task 1	Conduct literature review of key environmental and social challenges and vulnerabilities in Sumatera, specifically along Phase 2 of JTTS (from Betung to Pekanbaru).
2	Task 2	Re-examine current land use plans vis-a-vis the impacts of JTTS Phase 2 (from Betung to Pekanbaru, including project-based learning from JTTS Phase I which is currently operational).
3	Task 3	Update the land use scenarios along the JTTS Phase 2 (from Betung to Pekanbaru).

B	**Stage 2 – Conducting the SESA**	
4	Task 4	Conduct an assessment of E&S impacts of the land use scenarios and provide recommendations to optimize the land use plans and minimize the E&S impacts.
5	Task 5	Develop an operational assessment of the impacts of land uses to JTTS Phase 2 (from Betung to Pekanbaru) in terms of traffic and maintenance and operation plans of JTTS Phase 2 (from Betung to Pekanbaru).
6	Task 6	Develop an assessment of institutional factors that drive and manage land use changes in Sumatera, specifically from Betung to Pekanbaru.
7	Task 7	Engage stakeholders and conduct a series of consultations during the SESA process.
C	**Stage 3 – Providing recommendations to the decision makers**	
8	Task 8	Propose an action plan to harmonize environmental and social management, land uses, and operation of JTTS Phase 2 (from Betung to Pekanbaru).
9	Task 9	Prepare SESA report and briefings to the decision makers and other stakeholders.

The Services will be performed during a period of 12 months.

3. The detailed Draft of Terms of Reference (TOR) for the assignment is available on the electronic procurement system (SPSE) International Competitive Bidding (ICB) of National Public Procurement Agency (Government Goods/Services Procurement Policy Agency), hereinafter referred to as (LKPP) *[*https://spseicb.lkpp.go.id/*]*.

4. The Directorate General of Highways, Ministry of Public Works and Housing through (Procurement Committee Kelompok Kerja (Pokja) Pemilihan 33.E.2024 now invites eligible consulting firms (“Consultants”) to indicate their interest in providing the Services. Interested Consultants should provide information demonstrating that they can fulfill the shortlisting criteria below.

The shortlisting criteria (in detail) are:

No	Criteria
A	**Corporate Experiences Factor**
1	At least 2 (two) similar assignment experiences within the last 10 (ten) years. The firm should be an organization possessing thorough experience in land use development planning and experiences in strategic environmental and social assessment. Preferably the company has traffic modeling experiences in their previous assignments.
2	At least 2 (two) similar working experiences in ASEAN area including preferable (but not mandatory) project experience in Indonesia within the last 10 (ten) years.

No	Criteria
3	The company has financial status with consultancy turnover of past 3 (three) years (2021-2023) that demonstrates the capability of conducting this assignment (minimum average annual turnover of 1 (one) million USD) proved by financial statement.

All companies who submit the EOI in the form of joint venture must ensure that each joint venture member **must meet** the shortlisting criteria above.

Key Experts will not be evaluated at the shortlisting stage.

5. The attention of interested Consultants is drawn to Section II, paragraphs 4.4, 4.4.2 and 13.4 of the Bank's "Interim Operational Directive on Procurement Instructions for Recipients" dated June 2, 2016 ("Procurement Instructions"), setting forth the Bank's policy on conflict of interest.

6. Consultants may associate with other firms to enhance their qualifications, but should indicate clearly whether the association is in the form of a joint venture and/or a sub-consultancy. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.

7. A Consultant will be selected in accordance with the Quality and Cost Based Selection (QCBS) method set out in the AIIB Procurement Instructions to Recipients.

8. Interested Consultant firms are required to access the electronic procurement system (SPSE) International Competitive Bidding (ICB) of National Public Procurement Agency (Government Goods/Services Procurement Policy Agency), hereinafter referred to as (LKPP) to register and to submit EOI *[*https://spseicb.lkpp.go.id/*]*.

9. Further information can be obtained at the address below during office hours 08.00 to 17.00 (GMT+7 or WIB). In case of any difficulty in registering in the SPSE system if you do not receive an email confirmation response with the access password from MPWH within 24 hours of submitting the request through the system, you may send an email to the email address below. You may access the SPSE User Guide for Vendor through: https://spseicb.lkpp.go.id/spseicb/emailconfirm, SPSE Helpdesk: 144

10. Expressions of interest must be submitted through SPSE ICB of MPWH latest by**:**

Date : May 31st 2024
Time : 16.30 Indonesian West Region Time (IWRT)

Procurement Committee Kelompok Kerja (Pokja) Pemilihan 33.E.2024
Address : Balai Pelaksana Pemilihan Jasa Konstruksi Wilayah DKI Jakarta
Jl. Pejompongan Raya No.1, Tanah Abang, Jakarta Pusat 10210
Telephone : 021 – 2522495
E-mail : pokja33.e.2024bp2jkdki@pu.go.id
Website : https://spseicb.lkpp.go.id/

Terms of Reference (TORs)
for Consultancy Services for

Strategic Environmental and Land Use Development Along Phase 2 of The Trans Sumatera Toll Road

October 2023

SECTION 1: INTRODUCTION

The Ministry of Public Works and Housing of Indonesia (The Client) is under preparation of the construction of Trans Sumatera Toll Road Project – Sp. Ness to Sentjalang (The Project) and seeking funding from the Asian Infrastructure Investment Bank (AIIB). The project consists of:

i. Construction of a 155,60 km toll road segment of Trans Sumatera Toll Road (JTTS) between Sp. Ness and Sentjalang in Sumatera's Jambi and Riau Province, which is divided into 2 stages of construction and procurement:
   a. Stage 1 (Sp. Ness – Merlung): 67,45 km;
   b. Stage 2 (Merlung – Sentjalang): 88,15 km.

ii. Consulting services for project implementation, including the Construction Supervision Consultant (CSC), Project Management Consultant (PMC), and External Environmental and Social Monitoring Consultant; and

iii. Institutional enhancement and capacity building, including technical assistance/training/workshops as well as enhancement of the toll road's operations (e.g., operational support such as asset management systems, maintenance equipment, control center improvements, or implementing an energy infrastructure pilot such as solar panel installations on the toll road embankments).

The Sp. Ness – Sentjalang Segment is part of the Jambi – Rengat Section (198,13 km; Link 15) under Phase 2 of the JTTS. The other segment under the Jambi – Rengat Section is Sentjalang – Rengat (42,53 km), which is completely located in Riau Province. The following picture (Figure 1) shows the JTTS by phases.



Figure 1 *Trans-Sumatera Toll Road by Phases*

Phase 2 of JTTS (Link 2.1,14,15, and 16), which includes AIIB's proposed project, connects several key cities in the southern and middle part of Sumatera Island, including Palembang, Jambi, and Pekanbaru, which are the second, sixth, and fourth largest cities in Sumatera. Currently, there are existing national roads connecting these cities which facilitate activities between the cities, and Phase 2 of JTTS will be located parallel to the existing national road to provide toll road that facilitate faster and safer means of road connectivity . The road infrastructure and the land use usually induces human activities along the corridor which leads to changes in land use and typically have reciprocal impacts, which applies to the Phase 2 of JTTS, and the land uses along it.

Considering the environmental and social vulnerabilities of Sumatera Island, it is important to assess the impacts from changes of land use on the environment and population to ensure a sustainable development in Sumatera. Although the proposed alignment does not pass through protected areas (rather, the alignment passes through plantations and agricultural lands as well as forest). The JTTS Phase 2 potentially crosses some wildlife migration corridors and natural habitats, the

development of the toll road will induce strip development along the corridor which may cause unordered land development if not planned well. Thus, a sound land use planning is required in parallel with the road development.

Land uses in Sumatera were planned in the Indonesia Masterplan of Economic Development study (developed in 2012) as well as in the corresponding land use plans of each province, but a reexamination of these plans and assessment of their impacts on the environment including biodiversity, terrestrial, and aquatic environment as well as social impacts will inform the optimization of the land use plans.

Given the scale of Phase 2 of JTTS (from Betung to Pekanbaru), a Strategic Environmental and Social Assessment (SESA) is needed to understand the induced impacts of the JTTS' alignment with regards to land uses. SESA is a process and a tool that use a range of analytical and participatory approaches to integrate environmental and social (E&S) considerations into policies, plans, and programmes, and evaluates the potential effects and risks of proposed policies, plans, and programmes on natural resources, social, cultural, economic conditions, and the institutional environment in which decisions are made.

The Ministry of Public Works and Housing seeks to engage an experienced Consultant (the Consultant) to develop the SESA for integrating environmental and social considerations into land use planning along the JTTS Phase 2 of The Trans Sumatera Toll Road, specifically from Betung to Pekanbaru, and analyzing the impacts of land use changes induced by the toll road development.

The SESA is expected to 1) re-examine the land use plans in related provinces in Sumatera and update land use scenarios considering JTTS Phase 2 (from Betung to Pekanbaru); 2) assess the E&S impacts of each land use scenario; 3) optimize the land use plans, e.g. zoning of land use by considering environmental and social limitations and effects of development activities proposed and comparison of the scenarios; and 4) provide recommendations based on the scenarios to the land use plans on the zoning, population, infrastructure and industrial development by considering environmental, natural resources and social capacity and land use management after planning stage. The SESA will ultimately inform the sound land use planning and contribute to sustainable development along the corridor of JTTS Phase 2 (from Betung to Pekanbaru) in next three decades.

SECTION 2: SCOPE OF WORK

The scope of work of this proposed assessment focuses mainly on the alignment of the Phase 2 of JTTS from Betung to Pekanbaru.

The scope of work includes 3 stages including 9 tasks:

Stage 1 – Establishing the context for SESA

- Task 1 – Conduct literature review of key environmental and social challenges and vulnerabilities in Sumatera, specifically along Phase 2 of JTTS (from Betung to Pekanbaru).
- Task 2 – Re-examine current land use plans vis-a-vis the impacts of JTTS Phase 2 (from Betung to Pekanbaru, including project-based learning from JTTS Phase I which is currently operational).
- Task 3 – Update the land use scenarios along the JTTS Phase 2 (from Betung to Pekanbaru).

Stage 2 – Conducting the SESA

- Task 4 – Conduct an assessment of E&S impacts of the land use scenarios and provide recommendations to optimize the land use plans and minimize the E&S impacts.
- Task 5 – Develop an operational assessment of the impacts of land uses to JTTS Phase 2 (from Betung to Pekanbaru) in terms of traffic and maintenance and operation plans of JTTS Phase 2 (from Betung to Pekanbaru).
- Task 6 – Develop an assessment of institutional factors that drive and manage land use changes in Sumatera, specifically from Betung to Pekanbaru.
- Task 7 – Engage stakeholders and conduct a series of consultations during the SESA process

Stage 3 – Providing recommendations to the decision makers

- Task 8 – Propose an action plan to harmonize environmental and social management, land uses, and operation of JTTS Phase 2 (from Betung to Pekanbaru).
- Task 9 – Prepare SESA report and briefings to the decision makers and other stakeholders.

Task 1 *– Conduct literature review of key environmental and social challenges and vulnerabilities in Sumatera, specifically along Phase 2 of JTTS (from Betung to Pekanbaru)*

The Consultant shall:

- Outline all available documentation, including the existing provincial and regional land use plans, master plans, feasibility study reports of major developments, and independent studies of key environmental and social

challenges and vulnerabilities in Sumatera, specifically from Betung to Pekanbaru as well as relevant laws, regulations, and policies related to land use;
- Liaise with provincial government and obtain existing relevant permitting documentation at the time of the Consultant's assignment;
- Stakeholder analysis including 1) identifying stakeholders and presenting the results in the format of matrix in terms of the importance and influence of different stakeholders. The stakeholders shall include for example, government authorities, PT HK officials who are in charge of JTTS operations, national and local authority of forest, plant, and wildlife experts in academia/universities, plantation associations (if any), developers of major projects, civil society and non-government organizations, and the general public; and 2) developing the stakeholder engagement plan that provides guidance on stakeholder consultations throughout the whole SESA process.
- Visit the proposed corridor of JTTS Phase 2 (from Betung to Pekanbaru) and related provinces.

***Task 2** – Re-examine current land use plans vis-a-vis the impacts of JTTS Phase 2 (from Betung to Pekanbaru, including project-based learning from JTTS Phase I which is currently operational)*

The Consultant shall:
- Examine existing land use plans in Sumatera's provinces with a focus on those areas along the corridor of JTTS Phase 2 (from Betung to Pekanbaru);
- Collect secondary information or data in the operational portions of JTTS (e.g., Phase 1), including 1) changes in the land use, terrestrial and marine environment, and ecosystems before and after the JTTS Phase 1 where applicable, and 2) impacts on communities and habitations;
- Establish the baseline of current land use by using satellite imagery and GIS data at landscape level;
- Interview relevant stakeholders (PT HK officials who are in charge of JTTS operations, national and local authority of forest, plant, and wildlife experts in academia/universities, NGOs, etc.).

***Task 3** – Update land use scenarios along the JTTS Phase 2 (from Betung to Pekanbaru)*

The Consultant shall:
- Update the land use scenarios through the following subtasks
    - Defining the spatial and temporal scope for scenarios with a focus on the corridor of JTTS Phase 2 (from Betung to Pekanbaru);

  - Using information from Task 2 to identify the driving factors and uncertainties of land use changes in the context of JTTS Phase 2 (from Betung to Pekanbaru) and forecast the trend of changing;
  - Updating the scenarios in the existing land use plans in terms of narratives and planning maps in the GIS format;
  - Articulate the limitations of the methodology for scenario analysis;
- Consult with the stakeholders: the scenario analysis will be carried out via participatory methods. The identified stakeholders will be engaged in the process of defining scope, identifying the driving factors, uncertainties, and trend of changes, as well as narrating the various scenarios;
- Provide a broad overview of the implications of each land use scenario.

Task 4 *– Conduct an assessment of E&S impacts of the land use scenarios and provide recommendations to optimize the land use plans and minimize the E&S impacts*

The Consultant shall:

- Determine the scope of the SESA, considering the existing land use plans, the JTTS Phase 2 (from Betung to Pekanbaru), attributes of environmental and social elements in Sumatera, specifically from Betung to Pekanbaru, and potential effects of proposed development activities. The scope of the study areas can be defined by environmental and social elements, e.g., ambient air, water environment and resources, acoustic environment, ecological environment, and social aspect;
- Baseline survey and analysis: collect primary and secondary data and information as extensive as possible and carry out comprehensive analysis of the data collected. The Consultant will coordinate with the related Ministry and present the proper baseline data on base maps in the land use plans. Prior to the survey and analysis, the Consultant will prepare a work plan for baseline survey and analysis, including the plan for the data collection. The baseline survey and analysis will cover but not limited the following:
  - Physical environment;
  - Ecological environment[1];
  - Social aspect, e.g., economy, demography, education, health, cultural heritage, industries, etc;
  - Current status of land use and major developments in the provinces.
- Analyze the potential E&S impacts of each land use scenario established in Task 3. The consultant will provide quantitative assessment to the extent possible;

[1] A comprehensive biodiversity study is being conducted for Link 15-2 as part of the Project EIA but not covering the entire JTTS Phase 2 (Link 2.1, 14, 15 and 16).

- Scope mitigation measures that are currently used to address impacts of land use changes on the environmental, ecosystems, and social (e.g., land conservation policies);
- Provide recommendations to optimize the land use plans and minimize the E&S impacts including:
    - Comparing the E&S impacts of different land use scenarios and formulate recommendations to the land use plans, i.e., the recommended land use scenarios;
    - Sensitive mapping and defining "No-go zones": identify environmentally and socially sensitive hotspots and define buffer zones in the study areas on the base maps, in the GIS format, including but not limited to protected areas, critical habitats, wildlife migration corridors, cultural heritage, and areas of high ecosystem values;
    - Optimizing the land use plans in terms of types of land use and zoning for development, e.g., where and which type of development activities are strictly restricted;
    - Providing suggestions on population based on the land use plan;
    - Proposing measures, specific to the corridor of JTTS Phase 2 (from Betung to Pekanbaru), to enhance opportunities and mitigate adverse impacts.
- Engage the stakeholders during the preparation of the SESA report including the review of the draft report.

Task 5 *– Develop an operational assessment of the impacts of land uses to JTTS Phase 2 (from Betung to Pekanbaru) in terms of traffic and maintenance and operation plans of JTTS Phase 2 (from Betung to Pekanbaru)*

The Consultant shall:

- Based on the recommended land use scenarios (output of Task 4), update the traffic model of the Sumatera Island for the evaluation and review of JTTS Phase 2 (from Betung to Pekanbaru) toll road delivery systems and programs;
- Assess the impacts on traffic demand and revenues as well as on operations and maintenance of the JTTS Phase 2 (from Betung to Pekanbaru) under the recommended land use scenarios;
- Identify measures to enhance operational and development sustainability (identify, develop, and support the implementation of Public-Private Partnership (PPP) schemes as well as related financial aspect) of the JTTS Phase 2 (from Betung to Pekanbaru) under the recommended land use scenarios.

Task 6 *– Develop an assessment of institutional factors that drive and manage land use changes in Sumatera, specifically from Betung to Pekanbaru*

The Consultant shall:

- Conduct consultations with various ministries and institutions which are involved in land use planning in Sumatera, at the national, provincial, and municipal levels;
- Develop a profile of the strategic directions and responsibilities of various institutions involved in land use planning in Sumatera;
- Evaluate the institutional capacity of these institutions in implementing the land use plans and measures proposed in Task 4 and 5, especially the possible institutional weaknesses in coordination mechanism.
- Provide a set of recommendations on how to strengthen the organizational capacities of these institutions in shaping land use planning in Sumatera, specifically from Betung to Pekanbaru.

Task 7 *– Engage stakeholders and conduct a series of consultations during the SESA process*

The Consultant shall:

- Follow the stakeholder engagement plan developed in Task 1 and carry out consultations/engagement with concerned stakeholders during the SESA stage.
- Apply participatory approaches to engaging the stakeholder and tailor the methods for consultations with different types of stakeholders when conducting the above-mentioned tasks. It will be an interactive process between the Consultant and the stakeholders including the decision makers.

Task 8 *– Propose an action plan to harmonize environmental and social management, land uses, and operation of JTTS Phase 2 (from Betung to Pekanbaru)*

The Consultant shall:

- Based on outputs from Tasks 1 to 6, develop an action plan as part of the SESA report to sync the recommendations on environmental and social management, land use scenarios, as well as current and future JTTS Phase 2 (from Betung to Pekanbaru) operations for the decision makers.
- Update the stakeholder engagement plan that is developed in Task 1 and implemented during the SESA process as per Task 7 to include post-SESA stakeholder management and engagement which will facilitate the implementation of the recommendations of the SESA and the Action Plan

Task 9 *– Prepare SESA report and briefings to the decision makers and other stakeholders*

The Consultant shall:

- Prepare draft SESA report including the action plan for future management and the stakeholder engagement plan.
- Prepare non-technical summary of the SESA report that will be used for briefings to the decision makers.
- Conduct a series of comprehensive workshops that will disseminate the study findings and engage various ministries that coordinate land use in one form or another, such as the Ministry of Public Works and Housing, Coordinating Ministry of Economic Affairs, Coordinating Ministry of Maritime and Investment, Ministry of Investment, Ministry of Agrarian Affairs and Spatial Planning/National Land Agency, Ministry of Transportation, and the provincial and local government agencies.
- Finalize the SESA report upon the comments and feedback received during the workshops.

SECTION 3: DELIVERABLES

The Consultant shall prepare the following documentation:

- Inception Report that elaborates the work plan, methodology, and process of SESA.
- Literature review report, baseline of current land use and draft Stakeholder Engagement Plan under Tasks 1-2. The document should be in both Bahasa Indonesia and English.
- Land use planning scenarios for Task 3. The document should be in both Bahasa Indonesia and English.
- E&S assessment of land use scenarios for Task 4. The document should be in both Bahasa Indonesia and English.
- Operational assessment and Institutional assessment reports for Task 5-6. The document should be in both Bahasa Indonesia and English.
- Updated traffic models for Task 6. The output should be in CUBE, Saturn, or a renowned traffic model format.
- SESA report including the Action plan and updated Stakeholder Engagement Plan, as well as a Non-technical Summary for Task 8 and 9. The document should be in both Bahasa Indonesia and English.
- Various stakeholder consultations during the SESA process according to the Stakeholder Engagement Plan for Task 7. At least 3 workshops conducted for ministries and provinces for Task 9. The output should be in presentation format, in Bahasa Indonesia and/or English, as applicable to the audience.

SECTION 4: TEAM REQUIREMENTS

The Consultant's team (the Project Team) should include Bahasa-speaking experts with significant experience in Indonesia and SESA experts with experience in land use planning. The required qualification and experience of key experts are shown in the table below.

No	Key Expert	Minimum Qualification And Experience
1	Team Leader/Senior Land Use Planning Expert (1 person)-Intl Estimated inputs: 7 months	Education: Master's degree or equivalent in land use planning, geography, natural resource management, land management, or another relevant degree. Experience: • 15 years working experience in land or environmental management after graduation. • 10 years comparable experience as Team Leader in land or environmental management including 4 years comparable experience as Team Leader in land or environmental management of freeway development. • At least 1 time experience as Team Leader or Co-Team Leader in land or environmental management of freeway development. • At least 1 time experience as Team Leader or Co-Team Leader in international project[2]. • Experience in Environmental Impact Assessment/SESA/Strategic Environmental Assessment (SEA) for land use planning in Indonesia is an asset. Certification & Language Skills: • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. Miscellaneous:

[2] Experience in international project can be defined as experience in project that required an English environment.

No	Key Expert	Minimum Qualification And Experience
		The candidate must have a good working knowledge of national policy processes and policy language, knowledge of land tenure and management issues in Indonesia, and a good understanding of international policies and agreements related to sustainable land management.
2	Co-Team Leader/Senior Environmental Specialist/Engineer (1 person)- Intl SESA Expert Estimated inputs: 7 months	Education: Master's degree or equivalent in environmental engineering/science or policy and management or another relevant degree. Experience: • 15 years experience in environmental impact assessment. • 10 years comparable experience as Team Leader or Co-Team Leader in SESA/SEA including 3 years comparable experience as Team Leader or Co-Team leader in SESA/SEA of freeway development. • At least 1 time experience as Team Leader or Co-Team Leader in international project[3]. • Experience in SESA or SEA for land use planning. • SESA/SEA experience in different countries, preferably in Southeast Asian countries. Certification & Language Skills: • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment.

[3] Experience in international project can be defined as experience in project that required an English environment.

No	Key Expert	Minimum Qualification And Experience
		Miscellaneous: The candidate must have good knowledge of SESA/SEA and be familiar with the internationally recognized methodology of SESA/SEA.
3	Senior Social Development Specialist (1 person)-Intl SESA Expert Estimated inputs: 6 months	Education: Bachelor's degree or equivalent in relevant social science (development studies, sociology, and urban studies). Experience: • 10 years working experience in social development issues, social impact assessments, and management plans after graduation. • 8 years comparable experience as Senior Social Development Specialist in social development issues, social impact assessments, and management plans including 2 years comparable experience as Senior Social Development Specialist in social development issues, social impact assessments, and management plans of freeway development. • At least 1 time experience in international project[4]. • Experience in SESA and familiar with social issues related to land use planning. Certification & Language Skills: • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment.

[4] Experience in international project can be defined as experience in project that required an English environment.

No	Key Expert	Minimum Qualification And Experience
4	PPP Specialist (1 person)-National Estimated inputs: 3 months	Education: Master's degree or equivalent in public policy, public administration, economics, or business. Experience: • 10 years working experience in PPP or relevant experience after graduation. • 8 years comparable experience as PPP Specialist in PPP or relevant experience including 2 years comparable experience as PPP Specialist in PPP or relevant experience of freeway development. Certification & Language Skills: • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. • Fluent in Bahasa Indonesia. Miscellaneous: Good working knowledge of national policy processes and policy language in Indonesia, formulating the institutional scheme, PPP project scheme, land use planning, structuring and delivery system of PPP project, and environmental and social management will be useful.
5	Senior Environmental Specialist/Engineer (1 person)-National SESA Expert Estimated inputs: 7 months	Education: Bachelor's degree or equivalent in environmental engineering/science or policy and management or another relevant degree. Experience: • 10 years working experience in environmental impact assessment of

No	Key Expert	Minimum Qualification And Experience
		land use changes and/or environmental impact assessment of infrastructure projects particularly road projects after graduation. • 8 years comparable experience as Senior Environmental Specialist/Engineer in environmental impact assessment of land use changes and/or environmental impact assessment of infrastructure projects particularly road projects including 2 years comparable experience as Senior Environmental Specialist/Engineer in environmental impact assessment of land use changes and/or environmental impact assessment of infrastructure projects particularly road projects of freeway development. • 3 years comparable experience in SESA/SEA. • Experience in SESA/SEA for land use planning is an asset. Certification & Language Skills: • Professional Competency Certificate from Indonesia National Construction Services Development Board (LPJK) as Ahli Teknik Lingkungan Madya. • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. • Fluent in Bahasa Indonesia. Miscellaneous: Knowledge of SESA and its methodology and good working knowledge of national

No	Key Expert	Minimum Qualification And Experience
		policy processes and policy language in Indonesia.
6	Highway/Transportation Engineer (1 person)-National Estimated inputs: 6 months	Education: Bachelor's degree or equivalent in civil engineering, transport planning, or relevant degrees. Experience: • 10 years working experience in highway/transportation engineering/planning after graduation. • 8 years comparable experience as Senior Engineer in highway/transportation engineering/planning including 2 years comparable experience as Senior Engineer in highway/transportation engineering/planning of freeway development. Certification & Language Skills: • Professional Competency Certificate from Indonesia National Construction Services Development Board (LPJK) as Ahli Teknik Jalan Madya. • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. • Fluent in Bahasa Indonesia. Miscellaneous: The candidate must have a good working knowledge of highway/transportation engineering/planning. Experience in working in the freeway sector in Indonesia is preferred.

No	Key Expert	Minimum Qualification And Experience
7	Land Use Planning Expert (1 person)-National Estimated inputs: 7 months	Education: Bachelor's degree or equivalent in land use planning, geography, natural resource management, land management, or another relevant degree. Experience: • 10 years working experience in land or environmental management after graduation. • 8 years comparable experience as Land Use Planning Expert in land or environmental management including 2 years comparable experience as Land Use Planning Expert in land or environmental management of freeway development. Certification & Language Skills: • Professional Competency Certificate from Indonesia National Construction Services Development Board (LPJK) as Ahli Perencanaan Wilayah dan Kota Madya. • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. • Fluent in Bahasa Indonesia. Miscellaneous: The candidate must have a good working knowledge of national policy processes and policy language, knowledge of land tenure and management issues in Indonesia, and a good understanding of international policies and agreements related to sustainable land management.

No	Key Expert	Minimum Qualification And Experience
8	Social Development Specialist (1 person)-National SESA Expert Estimated inputs: 6 months	Education: Bachelor's degree or equivalent in relevant social science (development studies, sociology, urban studies, anthropology, etc.). Experience: • 10 years working experience in social development issues, social impact assessments, and management plans after graduation. • 8 years comparable experience as Social Development Specialist in social development issues, social impact assessments, and management plans (some experiences should also be in infrastructure projects and labor issues) including 2 years comparable experience as Social Development Specialist in social development issues, social impact assessments, and management plans (some experiences should also be in infrastructure projects and labor issues) of freeway development. • Experience in SESA and familiar with social issues related to land use planning. Certification & Language Skills: • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. • Fluent in Bahasa Indonesia. Miscellaneous:

No	Key Expert	Minimum Qualification And Experience
		Experience in working on development projects in South Sumatera, Jambi, and Riau Province on Sumatera Island will be preferred. Experience in working on World Bank/ADB-funded projects will be advantageous.
9	Transportation Planner/Modeler (1 person)-National Estimated inputs: 4 months	Education: Bachelor's degree or equivalent in civil engineering, transport planning, or relevant degrees. Experience: • 10 years working experience in transportation planning/modelling after graduation. • 8 years comparable experience as Transportation Planner/Modeler in transportation planning/modelling including 2 years comparable experience as Transportation Planner/Modeler in transportation planning/modelling of freeway development. Certification & Language Skills: • Professional Competency Certificate from Indonesia National Construction Services Development Board (LPJK) as Ahli Teknik Jalan Madya. • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. • Fluent in Bahasa Indonesia. Miscellaneous: The candidate must have a good working knowledge of transportation planning/modeling and economic feasibility.

No	Key Expert	Minimum Qualification And Experience
		Experience in working on transport modeling in Indonesia is preferred.
10	Traffic Engineer (1 person)-National Estimated inputs: 3 months	Education: Bachelor's degree or equivalent in civil engineering, traffic engineering, or relevant degrees. Experience: • 10 years working experience in traffic engineering after graduation. • 8 years comparable experience as Senior Engineer in traffic engineering including 2 years comparable experience as Senior Engineer in traffic engineering of freeway development. Certification & Language Skills: • Professional Competency Certificate from Indonesia National Construction Services Development Board (LPJK) as Ahli Teknik Jalan Madya. • Fluent in English, proved by valid document such as TOEFL/TOEIC/IELTS certificate and/or working experience in projects that required an English environment. • Fluent in Bahasa Indonesia. Miscellaneous: The candidate must have a good working knowledge of traffic engineering. Experience in working in the freeway sector in Indonesia is preferred.

Job Description of Key Expert

i. Team Leader/Senior Land Use Planning Expert (1 person, international, 7 man-months)

The Team Leader/Senior Land Use Planning Expert will be responsible for overall coordination of the Project Team's activities and will be directly

responsible to the Client. The main responsibility will be to coordinate the project activities in a timely manner and ensure that the objective of this TOR is fulfilled to the satisfaction of the Client. In addition, the Team Leader will also work as a senior land use planning expert and oversee all tasks, specifically related to land or environmental management. S/he will have overall responsibility in technical advisory, management, and monitoring all tasks under the contract, as well as setting up technical guidance and standards as necessary. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Maintaining close contact with the Client and other stakeholders to ensure that all the tasks are implemented in accordance with the government's and AIIB policies and guidelines;
b. Being responsible for the overall management of all tasks, specifically related to land or environmental management;
c. Checking all items of the tasks, specifically related to land or environmental management before submission of reports to the Client;
d. Being accountable for all items of the tasks, specifically related to land or environmental management and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client;
e. Obtaining appropriate reports, data, and information for all items of the tasks, and compilation of regular updates;
f. Preparing all documents related to deliverables;
g. Preparing presentations related to deliverables, as well as preparing workshop materials and activities;
h. Preparing and facilitating accurate evaluations of work/task done in relation to the defined milestones/outputs; and
i. Other aspects, as may be necessary for the project based on requirements of the Client.

ii. Co-Team Leader/Senior Environmental Specialist/Engineer (1 person, international, 7 man-months)

Co-Team Leader/Senior Environmental Specialist/Engineer will assist the Team Leader for overall coordination of the Project Team's activities and will be responsible to the Team Leader. The main responsibility will be to coordinate the project activities in a timely manner and ensure that the objective of this TOR is fulfilled to the satisfaction of the Client. S/he shall provide technical guidance to all national consultants in terms of SESA/SEA. S/he shall also oversee all tasks of the project, specifically related to SESA/SEA to ensure compliance with the internationally recognized methodology of SESA/SEA. In addition, the Co-Team Leader will also work as a senior environmental specialist/engineer and oversee all tasks related to

SESA/SEA. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Assisting the Team Leader in the execution of the work in accordance with the TOR and also for the co-ordination of all professional inputs. S/he will be responsible to the Team Leader. S/he will also maintain close contact with the Client and other stakeholders to ensure that all the tasks are implemented in accordance with the government's and AIIB policies and guidelines;
b. Carrying out the Project Team leadership functions in the absence of the Team Leader;
c. Assisting the Team Leader in overall management of all tasks, specifically related to SESA/SEA;
d. Checking all items of the tasks, specifically related to SESA/SEA before submission of reports to the Client;
e. Being responsible for all items of the tasks, specifically related to SESA/SEA and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client;
f. Endeavouring to ensure that all provisions of the TOR are fulfilled to the complete satisfaction of the Client;
g. Endeavouring to ensure continued liaison, especially on technical matters between the the Project Team;
h. Assisting Team Leader in preparing all documents related to deliverables;
i. Assisting Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
j. Assisting team leader in preparing and facilitating accurate evaluations of work/task done in relation to the defined milestones/outputs;
k. Assisting the Team Leader in timely preparation of deliverables; and
l. Providing other required support to the project based on requirements of the Client.

iii. Senior Social Development Specialist (1 person, international, 6 man-months)
Senior Social Development Specialist will oversee all tasks related to social development issues, social impact assessments, and management plans. S/he shall provide technical guidance to all national consultants in terms of social development issues, social impact assessments, and management plans. S/he shall also oversee all tasks related to SESA/SEA in terms of social issues related to land use planning. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Specifying and managing all tasks related to social development issues, social impact assessments, and management plans;
b. Checking all items of the tasks related to social development issues, social impact assessments, and management plans before submission of reports to the Client;

c. Being responsible for all items of the tasks related to social development issues, social impact assessments, and management plans and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client;
d. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
e. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
f. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and
g. Providing other required support to the project based on requirements of the Client.

iv. PPP Specialist (1 person, national, 3 man-months)
PPP Specialist will oversee all tasks related to PPP (identifying, developing, and supporting the implementation of PPP schemes as well as related financial aspect). S/he shall provide technical guidance to the Project Team in terms of PPP (identifying, developing, and supporting the implementation of PPP schemes as well as related financial aspect). S/he shall also oversee all tasks related to PPP (identifying, developing, and supporting the implementation of PPP schemes as well as related financial aspect) to ensure compliance with the national policy processes and policy language in Indonesia. The responsibilities of the consultant shall include, but not be limited to, the following:
a. Specifying and managing all tasks related to PPP (identifying, developing, and supporting the implementation of PPP schemes as well as related financial aspect);
b. Checking all items of the tasks related to PPP (identifying, developing, and supporting the implementation of PPP schemes as well as related financial aspect) before submission of reports to the Client;
c. Being responsible for all items of the tasks related to PPP (identifying, developing, and supporting the implementation of PPP schemes as well as related financial aspect) and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client;
d. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
e. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
f. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and

g. Providing other required support to the project based on requirements of the Client.

v. Senior Environmental Specialist/Engineer (1 person, national, 7 man-months)
Senior Environmental Specialist/Engineer will oversee all tasks related to environmental impact assessment of land use changes and/or environmental impact assessment of infrastructure projects. S/he shall provide technical guidance to the Project Team in terms of environmental impact assessment of land use changes and/or environmental impact assessment of infrastructure projects. S/he shall also oversee all tasks related to SESA/SEA in terms of environmental impact issues related to land use planning. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Carrying out all tasks related to SESA/SEA in the absence of the Co-Team Leader/Senior Environmental Specialist/Engineer (international);
b. Specifying and managing all tasks related to environmental impact assessment of land use changes and/or environmental impact assessment of infrastructure projects;
c. Checking all items of the tasks related to environmental impact assessment of land use changes and/or environmental impact assessment of infrastructure projects before submission of reports to the Client.
d. Being responsible for all items of the tasks related to environmental impact assessment of land use changes and/or environmental impact assessment of infrastructure projects and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client.
e. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
f. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
g. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and
h. Providing other required support to the project based on requirements of the Client.

vi. Highway/Transportation Engineer (1 person, national, 6 man-months)
Highway/Transportation Engineer will oversee all tasks related to highway/transportation engineering/planning. S/he shall provide technical guidance to the Project Team in terms of highway/transportation engineering/planning. S/he shall also oversee all tasks related to highway/transportation engineering/planning to ensure that the objective of

this TOR is fulfilled. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Specifying and managing all tasks related to highway/transportation engineering/planning;
b. Checking all items of the tasks related to highway/transportation engineering/planning before submission of reports to the Client.
c. Being responsible for all items of the tasks related to highway/transportation engineering/planning and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client.
d. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
e. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
f. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and
g. Providing other required support to the project based on requirements of the Client.

vii. Land Use Planning Expert (1 person, national, 7 man-months)

Land Use Planning Expert will oversee all tasks related to land or environmental management. S/he shall provide technical guidance to the Project Team in terms of land or environmental management. S/he shall also oversee all tasks related to land or environmental management to ensure that the objective of this TOR is fulfilled. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Carrying out all tasks related to land or environmental management in the absence of the Team Leader/Senior Land Use Planning Expert (international);
b. Specifying and managing all tasks related to land or environmental management;
c. Checking all items of the tasks related to land or environmental management before submission of reports to the Client.
d. Being responsible for all items of the tasks related to land or environmental management and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client.
e. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
f. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;

g. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and
h. Providing other required support to the project based on requirements of the Client.

viii. Social Development Specialist (1 person, national, 6 man-months)
Social Development Specialist will oversee all tasks related to social development issues, social impact assessments, and management plans. S/he shall provide technical guidance to the Project Team in terms of social development issues, social impact assessments, and management plans. S/he shall also oversee all tasks related to related to SESA/SEA in terms of social issues related to land use planning. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Carrying out all tasks related to social development issues, social impact assessments, and management plans in the absence of the Senior Social Development Specialist (international);
b. Specifying and managing all tasks related to social development issues, social impact assessments, and management plans;
c. Checking all items of the tasks related to social development issues, social impact assessments, and management plans before submission of reports to the Client.
d. Being responsible for all items of the tasks related to social development issues, social impact assessments, and management plans and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client.
e. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
f. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
g. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and
h. Providing other required support to the project based on requirements of the Client.

ix. Transportation Planner/Modeler (1 person, national, 4 man-months)
Transportation Planner/Modeler will oversee all tasks related to transportation planning/modelling. S/he shall provide technical guidance to the Project Team in terms of transportation planning/modelling. S/he shall also oversee all tasks related to transportation planning/modelling to ensure that the objective of this TOR is fulfilled. The responsibilities of the consultant shall include, but not be limited to, the following:

a. Specifying and managing all tasks related to transportation planning/modelling;
b. Checking all items of the tasks related to transportation planning/modelling before submission of reports to the Client.
c. Being responsible for all items of the tasks related to transportation planning/modelling and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client.
d. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
e. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
f. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and
g. Providing other required support to the project based on requirements of the Client.

x. Traffic Engineer (1 person, national, 3 man-months)
Traffic Engineer will oversee all tasks related to traffic engineering. S/he shall provide technical guidance to the Project Team in terms of traffic engineering. S/he shall also oversee all tasks related to traffic engineering to ensure that the objective of this TOR is fulfilled. The responsibilities of the consultant shall include, but not be limited to, the following:
a. Specifying and managing all tasks related to traffic engineering;
b. Checking all items of the tasks related to traffic engineering before submission of reports to the Client.
c. Being responsible for all items of the tasks related to traffic engineering and provide the required support to the Project Team in the delivery of satisfactory outputs to the Client.
d. Assisting Team Leader and Co-Team Leader in preparing all documents related to deliverables;
e. Assisting Team Leader and Co-Team Leader in preparing presentations related to deliverables, as well as preparing workshop materials and activities;
f. Assisting the Team Leader and Co-Team Leader in timely preparation of deliverables; and
g. Providing other required support to the project based on requirements of the Client.

SECTION 5: IMPLEMENTATION SCHEDULE

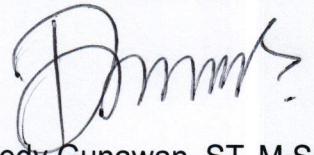
The consultancy services should be implemented over a period of 1 year from Signature of Contract to submission of the draft package. The expected deadline and indicative payment schedule are as follows.

No	Output Description	% of contract price	Expected Deadline (months from mobilization date)
1	Inception Report	5%	1
2	Literature review report, baseline land use mapping and draft Stakeholder Engagement Plan for Tasks 1-2	5%	1.5
3	Land use planning scenarios for Task 3	15%	4
3	E&S assessment for Task 4	25%	6
4	Operational assessment and Institutional assessment reports for Task 5-6	10%	7
5	Updated traffic models for Task 6	20%	8
6	SESA report including the Action plan and updated Stakeholder Engagement Plan for Task 8-9	10%	9
7	Workshop activities for Task 7	10%	12

SECTION 6: COST ESTIMATE BREAKDOWN

The successful Consultant will be procured on a lump sum basis (payment against milestones) that will include all services needed to carry out the scope of works. This will include all technical consulting fees and expenses, travel-related costs, and any other administrative fees related to the consultancy assignment.

PPK Perencanaan Teknis
Jalan Bebas Hambatan,



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