

REQUEST FOR EXPRESSIONS OF INTEREST (CONSULTING SERVICES – FIRMS SELECTION)

Country: People's Republic of China
Client: Guangxi Chongzuo Urban Construction Investment Development Group Co. Ltd
Project: Guangxi Chongzuo Border Connectivity Improvement Project
Loan No.: L0357A
Assignment Title: Construction Supervision Services for Wuzhou to Shuolong Highway (Chongjing Expressway to Shuolong Port Section)
REOI Reference No.: GCBCIP-Supervision-01

1. The People's Republic of China *has applied for* financing from the Asian Infrastructure Investment Bank (hereinafter referred to as "the Bank") toward the cost of the Guangxi Chongzuo Border Connectivity Improvement Project, and intends to apply part of the proceeds for the assignment.
2. The consulting services ("the Services") include the following aspects: (a) supervision services of construction quality, safety, environmental protection, cost and progress of subgrade, pavement, bridge, tunnel, route intersection, traffic safety facility, mechatronics, house building and landscape works of the main route and link of Wuzhou to Shuolong Highway (Chongjing Expressway to Shuolong Port Section); (b) conducting the environment, society, health and safety (ESHS) regulation according to the requirements of the Bank. The detailed requirements can be found in the assignment's TOR (Annex I as attached).

The Services may begin on the Effective Date of the contract, and ended upon the end of Defect Liability Period, in which approximately 1 month for construction preparing period, 36 months for construction period and 24 months for Defect Liability Period.

Time-based contract form will be applied to the assignment,.

3. The detailed Terms of Reference (TOR) for the assignment *are attached to this request for expressions of interest (see Annex I)*.
4. The Client now invites eligible consulting firms (“Consultants”) to indicate their interest in providing the Services. Interested Consultants should provide information (including but not limited to the Consultant’s introduction, description of similar experiences and corresponding certificates) demonstrating that they have the required qualifications and relevant experiences to perform the Services. Key Experts will not be evaluated at the shortlisting stage.

4.1 Qualification Criteria

4.1.1 Qualification Requirements

The Consultant shall be registered social organization (research institution, design institution, consulting agency, firms, universities or other non-governmental organizations) which has construction supervision experience for at least 5 years. Domestic Consultant shall have the following qualification certificates: (i) Class A supervision qualification certificate for highway engineering; (ii) Special supervision qualification certificate for highway mechatronics engineering; and (iii) Class B or above supervision qualification certificate for building engineering.

4.1.2 Eligibility

(1) Debarment: The Consultant shall not be listed in the AIIB’s Debarment List which is available at Bank’s external website (www.aiib.org/debarment).

(2) Conflict of Interest: The Consultant shall not be involved in the situations as per paragraph 4.4, 4.4.2 and 13.4 of *Interim Operational Directive on Procurement Instructions for Recipients* which is available at the Bank’s website.

(3) State-owned Enterprises: State-owned enterprises or institutions shall provide evidence indicating that they: (i) are carrying-out or are established for a business purpose, and are operating on a commercial basis; (ii) are financially and managerially autonomous; (iii) are not controlled by the government on day-to-day management; and (iv) are not under the supervision of the Client or its procuring agency.

4.1.3 Similar Experiences

The Consultant shall have the following experiences in the past 5 years (2017.1.1 - submission deadline of EOI. the actual date of the acceptance prevails):

(i) At least 1 construction supervision service for new-built (or reconstructed or expanded) expressway not less than 15 kilometers (at least including subgrade engineering and asphalt concrete pavement engineering) performed independently by the Consultant;

(ii) At least 1 construction supervision service for grand bridge engineering of new-built (or reconstructed or expanded) expressway performed independently by the Consultant;

(iii) At least 1 construction supervision service for long tunnel or super long tunnel engineering of new-built (or reconstructed or expanded) expressway performed independently by the Consultant;

(iv) At least 1 construction supervision service for mechatronics engineering (including charging, monitoring and communication systems) of new-built (or reconstructed or expanded) expressway performed independently by the Consultant;

(v) At least 1 construction supervision service for tunnel mechatronics engineering of new-built (or reconstructed or expanded) expressway performed independently by the Consultant;

(vi) At least 1 construction supervision service for building engineering with building area not less than 8000m² of new-built (or reconstructed or expanded) expressway performed independently by the Consultant;

Notes: ① Number of the above similar experiences are considered in supervision services assignment (contract), the experience which meets several criteria can be affirmed respectively. ② For joint venture, only the experiences provided by leader member in (i), (ii), (iii) and (vi) shall be affirmed. ③ “independently” means carrying out the relevant work independently.

4.2 Rated Criteria

The Consultant will be rated in accordance with the following similar experiences (exclusive of the experiences mentioned in para. 4.1.3 above) performed independently by the Consultant in the past 5 years (2017.1.1 - submission deadline of EOI. the actual date of the acceptance prevails):

- (i) 2 scores for every additional construction supervision service for new-built (or reconstructed or expanded) expressway not less than 15 kilometers (at least including subgrade engineering and asphalt concrete pavement engineering), no more than 10 scores for this sub-criterion;
- (ii) 5 scores for every additional construction supervision service for grand bridge engineering of new-built (or reconstructed or expanded) expressway, no more than 35 scores for this sub-criterion;
- (iii) 5 scores for every additional construction supervision service for long tunnel or super long tunnel engineering of new-built (or reconstructed or expanded) expressway, no more than 25 scores for this sub-criterion;
- (iv) 5 scores for every additional construction supervision service for mechatronics engineering (including charging, monitoring and communication systems) of new-built (or reconstructed or expanded) expressway, no more than 10 scores for this sub-criterion;
- (v) 5 scores for every additional construction supervision service for tunnel mechatronics engineering of new-built (or reconstructed or expanded) expressway, no more than 10 scores for this sub-criterion;
- (vi) 5 scores for every additional construction supervision service for building engineering with building area not less than 8000m² of new-built (or

reconstructed or expanded) expressway, no more than 10 scores for this sub-criterion.

Notes: ① Number of the above similar experiences are considered in supervision services assignment (contract), the experience which meets several criteria can be affirmed respectively. ② For joint venture, only the experiences provided by leader member in (i), (ii), (iii) and (vi) shall be affirmed. ③ “independently” means carrying out the relevant work independently.

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. Consultant may associate with other firms in the form of joint venture. The number of members in the joint venture shall not exceed 2. For joint venture of domestic consultants, the leader member shall have Class A supervision qualification certificate for highway engineering and Class B or above supervision qualification certificate for building engineering, while the other member has the qualification certificate comparable to the assigned works. The leader member shall undertake all the services other than mechatronics engineering supervision. Domestic Consultant may establish the site laboratory if it has the corresponding *Level Certificate of Highway and Waterway Testing & Inspection Institution*, otherwise the Consultant shall entrust a qualified third-party institution to establish the site laboratory.
7. A Consultant will be selected in accordance with International Open Competitive Tendering via QCBS method set out in the Procurement Instructions. At the shortlist stage, the Client will list qualified and experienced Consultants ranked within 6th in the shortlist and invite them to submit their Proposals based on the rated criteria among the qualified Consultants. Consultants with the same

scores shall be treated equally and all listed in the shortlist when ranking within sixth.

8. Further information can be obtained at the address below during office hours 09:00 to 12:00 am and 15:00-17:30 pm, Beijing time.
9. Consultant shall prepare the expression of interest (EOI) using the Sample Form attached to this REOI (*see Annex I*) with necessary additions and revisions. This REOI has been issued in the English language. In addition, the REOI is translated into the Chinese language. In the event of any discrepancy between the English and Chinese versions, the English version shall prevail. Consultant has a choice of submitting the EOI in any of the languages stated above. **Domestic Consultant shall submit EOI in Chinese.** Expressions of interest must be delivered in a written form to the address below (in person, or by mail, or by e-mail) showing clearly the assignment name, Consultant name and detailed contact information by June 17, 2022, 17:00 pm, Beijing time:

Beijing Zhongjiao Construction Engineering Consulting Co., Ltd

Address: Room 502, No. 170, Beiyuan Road, Chaoyang District, Beijing, China

Attention: Guo Xing

Tel: +86-010-51656869826

E-mail: zec_consulting@126.com.

Considering the inconvenience caused by the COVID-19, it is recommended that Consultant submit EOI by E-mail.

10. The REOI will publish on AIIB website (<https://www.aiib.org/>), UN Development Business Online (<http://www.devbusiness.com/>), China Tendering And Bidding Public Service Platform (<http://www.cebpubservice.com/>), Guangxi Tendering And Bidding Public Service Platform (<http://zbtb.gxi.gov.cn:9000/>), Chongzuo Public Resources Trading Platform (<http://ggzy.jgswj.gxzf.gov.cn/czggzy>),

Department of Transport of Guangxi Zhuang Autonomous Region
(<http://jtt.gxzf.gov.cn/>), the Client's website (<http://www.czcjtt.com.cn/>).

Annex I Terms of Reference

Annex II EOI Sample Form

Client: Guangxi Chongzuo Urban Construction Investment Development Group
Co. Ltd

Attn: Liang Hui, Procurement Manager

Address: No.18 Lanhuaishan Road, Jiangzhou District, Chongzuo City, Guangxi
Zhuang Autonomous Region, China

Tel: +86 0771-7837718

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Annex 1

Construction Supervision Services for Wuzhou to Shuolong Highway

(Chongjing Expressway to Shuolong Port Section)

Terms of Reference (TOR)

(Assignment No.: GCBCIP-Supervision-01)

1. Background

The People's Republic of China has applied for a loan from the Asian Infrastructure Investment Bank (hereinafter referred to as “AIIB” or “the Bank”) for Guangxi Chongzuo Border Connectivity Improvement Project employed by Guangxi Chongzuo Urban Construction Investment Development Group Co., Ltd. (hereinafter referred to as “Client”). The project consists of 4 Components: Component A – Wuzhou to Shuolong Highway (Chongjing Expressway to Shuolong Port Section), Component B – Detian to Shuolong Highway, Component C - Phase II of Shuolong Port (Shuolong Main Gate), Component D - Technical Support and Project Management. This assignment is the Construction Supervision Services for Component A – Wuzhou to Shuolong Highway (Chongjing Expressway to Shuolong Port Section) (hereinafter referred to as "the Project"). The Project overview is as follows.

(1) Construction scale: The main route of the Project starts from Neitun Village, Fuxin Township of Tiandeng County, and connects Longan-Shuolong Highway under construction, with hub connectivity of Chongzuo-Jingxi Highway, which routes from the east to the west, via Fuxin Township of Tiandeng County, Shuolong Town of Daxin County, ends near Bangtun Village of Shuolong Town, connecting with the starting point of Shuolong link. The recommended total length of main route in preliminary design is 12.343km. One Neitun hub interchange is set along the whole route. 5.337km-long Shuolong link will be built simultaneously. The estimated amount is CNY 2,652,800,203, including the construction and installation cost of CNY 1,986,641,466.

(2) Main project structures: main route, interchange ramp, link, bridge deck with asphalt concrete pavement, tunnel with composite pavement, toll plaza with cement concrete pavement. Along the main route, there are 2,711m/2 grand bridges, 2,535.25m/5 bridges, 9 culverts, 3,645.5m/6 tunnels, 1 interchange, 3 passages, 1 management sub-center, 1 maintenance area, 1 tunnel management station, 1 ramp toll station, and 1 main toll station. Along the link, there are 98.5m/1 small and medium-sized bridge, 10 culverts, 1,430m/1 tunnel, 3 intersections. There are 9706 m² building construction, which contains toll station of 8000 m² and tunnel housing of 1706 m².

(3) Technical standards:

The main route of the Project is a two-way four-lane highway, with the design speed of 100km/h and subgrade width of 26m; the Shuolong link is a two-way four-lane Class-I highway, with the design speed of 80km/h and subgrade width of 25.5m. The design vehicle load class of bridge and culvert is in line with Class-I highway. Other technical indicators are as per the *Technical Standard of Highway Engineering* (JTG B01-2014).

The Project has been approved for construction by the Development and Reform Commission of Guangxi Zhuang Autonomous Region with the *Approval of the Feasibility Study Report on Wuzhou to Shuolong Highway (Chongjing Expressway to Shuolong Port Section)* (GFGJT (2021) No. 194). The preliminary design has been approved by the Department of Transportation of Guangxi Zhuang Autonomous Region with the *Approval of the Two-stage Preliminary Design of Wuzhou to Shuolong Highway (Chongjing Expressway to Shuolong Port Section)* (GJHS (2021) No. 234). Currently, the Client intends to hire a consulting company to provide the construction supervision services for the Project.

2. Task Objectives

The task aims to supervise the construction quality, safety, environmental protection, cost and progress of subgrade, pavement, bridge, tunnel, route intersection, traffic safety facility, mechatronics, house building and landscape works of the main route and link of the Project, and conduct the environment,

society, health and safety (ESHS) regulation according to the requirements of the AIIB on behalf of the Client;

- (1) Quality objectives: To meet the *Inspection and Evaluation Quality Standards for Highway Engineering* (JTG F80/1-2017); the completion (handover) acceptance shall be based on the *Implementation Rules of Acceptance Measures for Completion (Handover) Acceptance of Highway Engineering* (JGLF (2010) No. 65); the quality of handover acceptance shall be acceptable and the quality of completion acceptance shall be excellent.
- (2) Safety objectives: To eliminate major safety liability accidents, avoid serious safety liability accidents and control general safety liability accidents during the project construction.
- (3) Progress objectives: To comply with the design construction period in the approved construction drawing of the Project. The construction period shall meet the requirements set out in the project construction contract.
- (4) Environmental objectives: To strictly implement the environmental policies of the Chinese government and the AIIB. After treatment with the engineering measures and plant measures, the soil and water shall not be lost, the excavation surface of the foundation pit shall not be exposed, the spoil ground shall be completely protected, the bridge deck water and pavement water shall not be directly discharged to the farmland, and the Project shall pass the environmental protection acceptance of the ecological environment department and the water conservation acceptance of the water conservancy department.
- (5) Cost objectives: To strictly control the total cost to achieve the best social benefits and investment benefits under the premise of ensuring project quality, safety, progress and environmental objectives.
- (6) ESHS objectives: To comply with the environmental and social policies of China and the AIIB, and eliminate ESHS related risks.

3. Scope of Services, Specific Works and Expected Deliverables

3.1 Scope of services

The construction quality, progress, safety, environmental protection, cost and ESHS supervision services within the construction preparation period, construction

period, acceptance and defects liability period of all works in the Project. The expected construction preparation period is 1 month, the expected construction period of the Project is 36 months (subject to the actual handover acceptance), and the expected acceptance and defects liability period is 24 months.

3.2 Specific works (including but not limited to the followings)

- (1) To establish the site laboratory of the Chief Supervision Engineer Office equipped with conventional test and inspection equipment according to the contract requirements; if a domestic consultant establishes a site laboratory, such consultant shall have the corresponding *Level Certificate of Highway and Waterway Testing & Inspection Institutions*; otherwise, a third-party testing and inspection institution with corresponding qualifications shall be entrusted to establish the site laboratory;
- (2) To be familiar with the contract documents and investigate construction environment conditions;
- (3) To make supervision plan within the agreed period in the contract, and prepare the detailed supervision rules before the commencement of corresponding works according to the supervision plan;
- (4) To approve the construction organization design (including safety technical measures, emergency rescue schemes, special construction schemes and construction environmental protection measures) submitted by the contractor within the agreed period in the contract;
- (5) To participate in the design disclosure;
- (6) To approve the overall schedule submitted by the contractor, and approve the adjustment plans made by the contractor for overall schedule;
- (7) To inspect the contractor's assurance systems for project quality, construction safety, construction environment protection, etc.;
- (8) To review the contractor's site laboratory;
- (9) To conduct parallel resurvey on and approve the resurvey results of original datum points, datum lines and datum elevations submitted by the contractor;
- (10) To accept the ground lines determined by the contractor;

- (11) To approve the subdivisional, divisional and unit works defined by the contractor;
- (12) To confirm the site occupancy plan submitted by the contractor;
- (13) To check the bill of quantities reviewed by the contractor;
- (14) To issue the certificate of prepayment for commencement;
- (15) To preside over the supervision disclosure meeting;
- (16) To presided over the first site meeting;
- (17) To issue the commencement order for the contract project;
- (18) To review the subcontract plans and agreements according to the contract, and check whether the production safety responsibilities of the contractor and the subcontractor are clearly defined in the subcontract;
- (19) To approve the construction survey and setting-out;
- (20) To approve the mix proportion of raw materials and mixtures;
- (21) To review the construction organization and staffing;
- (22) To review the construction machinery and equipment mobilized by the contractor;
- (23) To review the construction schemes and main processes of subdivisional and divisional works submitted by the contractor;
- (24) To approve the contractor's monthly schedule, inspect and supervise the implementation of the schedule;
- (25) To approve the commencement application for subdivisional (divisional) works;
- (26) To accept the members, accessories or equipment;
- (27) To conduct patrol, supervision and spot inspection for the works and keep records according to the relevant regulations and requirements;
- (28) To sign for the key procedures;
- (29) To investigate and deal with the quality defects, hidden quality problems and quality accidents, or urge the contractor to report to the relevant departments according to the regulations for quality accidents which are not within the authority of the Supervisor;

- (30) To issue the suspension and resumption orders for unit or contract works and divisional (subdivisional) works;
- (31) To inspect and evaluate the quality of the unit, divisional and subdivisional works handed over by the contractor and issue the *Intermediate Handover Certificate*;
- (32) To measure the completed works with the agreed method in the contract;
- (33) To review interim payment application and issue interim payment certificate;
- (34) To evaluate the quality of completed divisional works, unit works and contract works according to the relevant regulations in a timely manner;
- (35) To deal with other matters related to the contract, review, evaluate and deal with work change, delay, cost claim, price adjustment, insurance, breach of contract, dispute and other contract matters according to the requirements of the contract;
- (36) To organize the preparation of monthly supervision report;
- (37) To preside over regular site meetings or special site meetings as required by the project;
- (38) To assist the Client in reviewing the acceptance application and evaluating project quality;
- (39) To participate in the acceptance of contract works organized by the Client;
- (40) To prepare the supervision work report and submit it to the Client;
- (41) To sign for the handover settlement certificate;
- (42) To organize the preparation of project supervision completion documents, and urge the contractor to prepare and sort out the completion documents according to the contract;
- (43) To inspect the implementation of the contractor's remaining works during the defects liability period of the contract works; inspect the completed works, instruct the contractor to repair the work defects, investigate and confirm the defects liability and repair costs;
- (44) To issue the defects liability termination certificate for contract works at the end of the defects liability period when the conditions are met;
- (45) To sign for the final payment certificate;

- (46) To participate in the project completion acceptance;
- (47) To ensure that the contractor's ESHS performance is in accordance with good international industry practices and meets the contractor's ESHS obligations. The specific ESHS related services include but are not limited to: (i) review and approve contractor's environmental and social management plan (C-ESMP), including all updates and revisions (at least once every 6 months); (ii) review and approve ESHS provisions of method statements, implementation plans, gender based violence (GBV) / sexual exploitation or assault (SEA) prevention and response action plan, drawings, proposals, schedules and all relevant Contractor's documents; (iii) review and consider the ESHS risks and impacts of design change applications or proposals that are inconsistent with ESIA, ESMP, approvals/permits and other relevant project requirements; (iv) undertake all site audits, supervisions and/or inspections of contractor's activities related to the Project to ensure the contractor's compliance with the ESHS requirements, including its GBV/SEA obligations, if necessary, in conjunction with the contractor and/or the Client's representative (at least once a month); (v) undertake the audits and inspections of contractor's accident logs, community liaison logs, monitoring results and other ESHS related documents (as necessary) to ensure the contractor's compliance with the ESHS requirements; (vi) in the case of incidents inconsistent with the contractor's ESHS obligations, agree on remedial actions and implementation schedule; (vii) ensure appropriate presentations are made at relevant meetings, including on-site and progress meetings, so as to discuss and agree on appropriate actions to ensure compliance with the ESHS obligations; (viii) check the contractor's actual reports (content and timeliness) in accordance with the contractor's contractual obligations; (ix) review and evaluate the contractor's ESHS documents (including regular reports and accident reports) for accuracy and effectiveness in a timely manner; (x) liaise with project participants from time to time and as necessary to identify and discuss any actual or potential ESHS matters; (xi) establish and maintain an appeal and remedy mechanism, including the types of appeals to be recorded and how confidentiality can be protected, for example by reporting allegations related to GBV/SEA; (xii) ensure that any

GBV/SEA incidents and complaints brought to the attention of consultant are registered in the appeal and remedy mechanism;

(48) To cooperate with the environmental and social external monitoring service consultants of Guangxi Chongzuo Border Connectivity Improvement Project to complete the works required by the Client;

(49) To complete other works as required by the Client and the AIIB.

3.3 Expected deliverables

(1) Supervision plan: mainly including project overview; basis, scope, content and objectives of the supervision work; organizational form of the project supervision agency; job responsibilities of each department and personnel; staffing, mobilization and demobilization plans; supervision work methods and measures; supervision work system; supervision procedures and forms; supervision facilities and equipment and their mobilization and demobilization.

(2) Supervision rules: they are based on the supervision plan and shall, in addition to the supervision plan of the content of refinement, include the supervision work flow, supervision work control points and objectives, the handling procedures for hidden safety and quality dangers and accident.

(3) Minutes of supervision disclosure meeting, the first site meeting, regular site meeting, special site meeting, etc.

(4) Monthly supervision report: it mainly includes the project implementation in the current month; the implementation of supervision work in the current month; the statistics of the project quality, safety, environmental protection, cost, progress supervision and the contract matters management; the main issues found in the construction and their solutions; the focus of the supervision work in the next month.

(5) Supervision work report: it mainly includes the project overview; the implementation of supervision work (including organization, personnel, equipment and facilities); effectiveness of supervision work (including quality, safety, environmental protection, cost and progress supervision, contract matters management and other measures; inspection during construction, project quality evaluation, treatment of issues and accidents); the issues found in handover

acceptance and their solutions; supervision work experience, instructions and suggestions.

(6) Construction supervision completion documents: it mainly includes the management documents; quality supervision documents; safety and environmental protection supervision documents; cost and progress supervision documents; contract matters management documents; patrol, supervision and spot inspection records; supervision logs.

(7) ESHS report: (i) the Client shall be informed timely of the occurrence of the following types of accidents: confirmed or possible violation of laws or international agreements; death or serious injury; significant adverse effects or damage to private properties (e.g. vehicle accident); or any allegation of SEA, sexual harassment or sexual misbehavior, rape, sexual assault, child abuse or defilement, or other violations involving children; (ii) the contractor's immediate notifications on ESHS shall be immediately shared with the Client; (iii) immediately inform and share with the Client any immediate notification related to ESHS incidents provided to the Consultant by the Contractor, and as required of the Contractor as part of the Progress Reporting; (iv) share with the Client in a timely manner the Contractor's ESHS metrics, as required of the Contractor as part of the Progress Reports..

(8) Other documents required by the Client and the Bank.

4. Team Composition and Qualification Requirements

The project team consists of key experts and non-key experts. The key experts include 1 Chief Supervision Engineer and 1 ESHS expert; The non-key experts include 2 supervision engineers of subgrade and pavement discipline, 2 supervision engineers of bridge discipline, 2 supervision engineers of tunnel discipline, 2 supervision engineers of mechatronics discipline, 2 supervision engineers of house building discipline, 1 supervision engineer of traffic safety facilities discipline, 1 supervision engineer of landscape discipline, 1 supervision engineer of safety and environmental protection discipline, 2 testing and inspection engineers and 30 supervisors; the specific requirements are shown in the table below:

No.	Position	Number of people required	Person-month	Minimum requirements
K-1	Chief Supervision Engineer	1	61	<p>The Chief Supervision Engineer shall have bachelor degree or above, with more than 10 years' supervision experience in highway project, and shall, as Chief Supervision Engineer or Deputy Chief Supervision Engineer, have completed at least one (1) construction supervision service for new-built (or reconstructed or expanded) expressway (including at least the subgrade engineering and asphalt concrete pavement engineering), one (1) construction supervision service for grand bridge engineering of new-built (or reconstructed or expanded) expressway, one (1) construction supervision service for long tunnel or super long tunnel engineering of new-built (or reconstructed or expanded) expressway.</p> <p>The Chief Supervision Engineer proposed by the domestic consultant shall also have the title of senior engineer or above,</p>

				hold the supervision engineer professional qualification certificate or highway and waterway supervision engineer qualification certificate issued by the department in charge of transportation, and have registered with the consultant.
K-2	ESHS expert (part-time expert is acceptable)	1	36	<p>The ESHS expert shall have bachelor degree or above in the relevant discipline, with at least 5 years' ESHS working experience in construction projects, be familiar with international industry practices related to ESHS, and have participated in ESHS related work of at least one project supported by international financial organization or foreign government.</p> <p>The ESHS Expert proposed by the domestic consultant shall also have the title of senior engineer or above.</p>
NK-1	Supervision engineer of subgrade and pavement discipline	2	73	The supervision engineer of subgrade and pavement discipline shall have at least 6 years' supervision experience in highway project, and at least 3 years' supervision experience in

				<p>expressway subgrade and pavement works.</p> <p>The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional qualification certificate or highway and waterway supervision engineer qualification certificate issued by the department in charge of transportation, and have registered with the consultant.</p>
NK-2	Supervision engineer of bridge discipline	2	73	<p>The supervision engineer of bridge discipline shall have at least 6 years' supervision experience in highway project, and at least 3 years' supervision experience in expressway bridge works.</p> <p>The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional qualification certificate or highway and waterway supervision engineer</p>

				qualification certificate issued by the department in charge of transportation, and have registered with the consultant.
NK-3	Supervision engineer of tunnel discipline	2	73	<p>The supervision engineer of tunnel discipline shall have at least 6 years' supervision experience in highway project, and at least 3 years' supervision experience in expressway tunnel works.</p> <p>The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional qualification certificate or highway and waterway supervision engineer qualification certificate issued by the department in charge of transportation, and have registered with the consultant.</p>
NK-4	Supervision engineer of mechatronics discipline	2	48	The supervision engineer of mechatronics discipline shall have at least 6 years' supervision experience in highway project, and at least 3 years' supervision experience in

				<p>expressway mechatronics works.</p> <p>The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional qualification certificate or highway and waterway supervision engineer qualification certificate issued by the department in charge of transportation, and have registered with the consultant.</p>
NK-5	Supervision engineer of house building discipline	2	54	<p>The supervision engineer of house building discipline shall have at least 3 years' supervision experience in house building works.</p> <p>The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional qualification certificate issued by the department in charge of construction, and have registered with the consultant.</p>

NK-6	Supervision engineer of traffic safety facilities discipline	1	24	<p>The supervision engineer of traffic safety facilities discipline shall have at least 6 years' supervision experience in highway project, and at least 3 years' supervision experience in expressway traffic safety facilities works.</p> <p>The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional qualification certificate or highway and waterway supervision engineer qualification certificate issued by the department in charge of transportation, and have registered with the consultant.</p>
NK-7	Supervision engineer of house landscape discipline	1	30	<p>The supervision engineer of landscape discipline shall have at least 3 years' supervision experience in highway project.</p> <p>The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional</p>

				<p>qualification certificate or highway and waterway supervision engineer qualification certificate issued by the department in charge of transportation, and have registered with the consultant.</p>
NK-8	Supervision engineer of safety and environmental protection discipline	1	36	<p>The supervision engineer of safety and environmental protection discipline shall have at least 3 years' supervision experience in highway safety. The supervision engineer proposed by the domestic consultant shall also have the title of intermediate engineer or above, hold the supervision engineer professional qualification certificate or highway and waterway supervision engineer qualification certificate issued by the department in charge of transportation, and have registered with the consultant.</p>
NK-9	Testing and inspection engineer	2	74	<p>The testing and inspection engineer shall have at least 5 years' similar experience. The testing and inspection engineer proposed by the domestic consultant shall also</p>

				have the title of senior engineer or above, and hold the testing and inspection engineer certificate or highway and waterway testing and inspection engineer qualification certificate issued by the Department of Transportation.
NK-10	Supervisor	30	1080	The supervisor shall have college degree or above, with at least 2 years' supervision experience in highway project.

If the consultant establishes the site laboratory by itself, the corresponding testing and inspection personnel shall be provided.

5. Report Requirements and Delivery Plan

5.1 Report requirements

As described in Section 3.3, the format and number of copies of the deliverables documents shall meet the archival data management requirements of the Client and the competent department of industry, and both the hard copies and the electronic version shall be submitted.

5.2 Delivery plan

The deliverables documents include but are not limited to the following documents:

Deliverables documents	Delivery plan
Supervision plan	Within 14 days after the consultant signs the contract with the Client
Supervision rules	Before the commencement of the Project
Minutes	Within 2 days after the supervision disclosure meeting, the first site meeting, regular site meeting, special site meeting, etc.

Monthly supervision report	Before the 5th day of each month during the construction period of the Project
Supervision work report	Within 14 days after the handover acceptance of the Project
Project supervision completion document	Within 14 days after the final acceptance of the Project

6. The Client's Input and Corresponding Personnel

6.1 Equipment and facilities provided by the Client

None;

6.2 Data provided by the Client

(1) Data on underground pipelines such as water supply, drainage, power supply, gas supply, heat supply, communication, radio and television pipelines; data on meteorological and hydrological observation; data on adjacent buildings and structures, underground works; and other original data related to highway project within the construction site and adjacent areas

(2) Datum points, datum lines and datum elevations for positioning and setting-out

(3) Relevant review, approval and archival materials obtained by the client

(4) Survey documents, design documents, etc.

(5) Technical standards and specifications

(6) Project contract and other relevant contracts

(7) Other data

6.3 Personnel provided by the Client

The Client shall coordinate and support the consultant's communication with the administrative departments and contractor.

7. Environmental and Social Policy

See the *Environmental and Social Management Plan for Guangxi Chongzuo Border Connectivity Improvement Project*, *Environmental and Social Impact Assessment Report for Guangxi Chongzuo Border Connectivity Improvement Project* and *Resettlement Plan for Guangxi Chongzuo Border Connectivity*

Improvement Project published on the websites of the AIIB and the Client for details.

8. Code of Conduct

The Consultant shall establish the Code of Conduct based on the ESIA, ESMP, the Bank EHS Guidelines and relevant standards in the Client's country. The issues to be addressed include but not limited as follows:

1. Compliance with applicable laws, rules, and regulations
2. Compliance with applicable health and safety requirements to protect the local community (including vulnerable and disadvantaged groups), the Consultant's Experts, the Client's personnel, and the Contractor's personnel, including sub-contractors and day workers (including wearing prescribed personal protective equipment, preventing avoidable accidents and a duty to report conditions or practices that pose a safety hazard or threaten the environment)
3. The use of illegal substances
4. Non-Discrimination in dealing with the local community (including vulnerable and disadvantaged groups), the Consultant's Experts, the Client's personnel, and the Contractor's personnel, including sub-contractors and day workers (for example, on the basis of family status, ethnicity, race, gender, religion, language, marital status, age, disability (physical and mental), sexual orientation, gender identity, political conviction or social, civic, or health status)
5. Interactions with the local community(ies), members of the local community (ies), and any affected person(s) (for example to convey an attitude of respect, including to their culture and traditions)
6. Sexual harassment (for example to prohibit use of language or behavior, in particular towards women and/or children, that is inappropriate, harassing, abusive, sexually provocative, demeaning or culturally inappropriate)

7. Violence, including sexual and/or gender based violence (for example acts that inflict physical, mental or sexual harm or suffering, threats of such acts, coercion, and deprivation of liberty)
8. Exploitation including sexual exploitation and assault (for example the prohibition of the exchange of money, employment, goods, or services for sex, including sexual favors or other forms of humiliating, degrading behavior, exploitative behavior or abuse of power)
9. Protection of children (including prohibitions against sexual activity or abuse, or otherwise unacceptable behavior towards children, limiting interactions with children, and ensuring their safety in project areas)
10. Sanitation requirements (for example, to ensure workers use specified sanitary facilities provided by their employer and not open areas)
11. Avoidance of conflicts of interest (such that benefits, contracts, or employment, or any sort of preferential treatment or favors, are not provided to any person with whom there is a financial, family, or personal connection)
12. Respecting reasonable work instructions (including regarding environmental and social norms)
13. Protection and proper use of property (for example, to prohibit theft, carelessness or waste)
14. Duty to report violations of this Code
15. Non-retaliation against personnel who report violations of the Code, if that report is made in good faith

The term “child” / “children” means any person(s) under the age of 18 years. The Code of Conduct should be written in plain language and signed by each Expert to indicate that they have: (i) received a copy of the code; (ii) had the code explained to them; (iii) acknowledged that adherence to this Code of Conduct is a condition of employment; and (iv) understood that violations of the Code can result in serious consequences, up to and including dismissal, or referral to legal authorities.

A copy of the code shall be displayed in the Engineer's office in appropriate language.

Annex II - EOI Sample Form

{Consultants shall prepare their EOI using the EOI Sample Form with necessary additions and revisions. It should be noted that domestic Consultant (for joint venture, the lead member) shall seal the document as required in the EOI Sample Form while foreign firms may not.}

EOI shall contain at least the following aspects:

FORM-1 EOI Submission Form

FORM-2 Consultant's Information Sheet

FORM-3 Introduction of Consultant

FORM-4A Summary of Consultant's Similar Experiences

FORM-4B Details of Consultant's Similar Experience

FORM-1 EOI Submission Form

To: _____ *[Client Name]*

We, the undersigned, submit the expression of interest (EOI) for _____
[Name of the assignment] in accordance with your Request for Expression of
Interest (REOI) with the reference No. of _____ *[Reference No. of the
REOI]*.

We promise that we meet the qualification criteria of the assignment and the
following requirements of eligibility:

1. do not listed in the AIIB's Debarment List;
2. do not involve in the situations as per paragraph 4.4, 4.4.2 and 13.4 of the
Interim Operational Directive on Procurement Instructions for Recipients.

We belong to State-owned Enterprise, but we

1. are carrying-out or are established for a business purpose, and are operating on
a commercial basis;
2. are financially and managerially autonomous;
3. are not controlled by the government on day-to-day management; and
4. are not under the supervision of the Client or its procuring agency.

{OR "*We do not belong to State-owned Enterprise.*" For joint venture, statements
for each member about SOE shall be made.}

The items we committed above are real and effective, we would be disqualified in
the assignment and be sanctioned by supervision department and the AIIB in case
of providing misrepresentative, misleading or false information.

Consultant Name (Name of the Joint Venture): _____
_____ (Seal)

Authorized Representative: _____ (Signature)

Notes:

1. Attached with Power of Attorney of authorized representative (Self-made Format). For joint venture, attached with Power of Attorney of authorized representative of lead member.
2. For joint venture, attached with a letter of intent or a copy of an existing agreement (self-made format), which at least reflects the following items: (i) Name of the lead member and other members; (ii) Scope of the works undertaken by each member; (iii) Authorization of each member to lead member.
3. State-owned Enterprises shall provide Articles of Association and other documentations which could support the committed matters mentioned above.

FORM-2 Consultant's Information Sheet

(For joint venture, filled by each member separately)

Consultant (Member) Name	
Role	<input type="checkbox"/> Independent Consultant <input type="checkbox"/> Joint Venture Leader <input type="checkbox"/> Joint Venture Member
Consultant's Registration Country	
Registration Address	
Business License No. (Institution Legal Person Certificate No.)	
Date of Establishment	
Registered Capital	
Business Scope	
Information of Legal Representative (Name, Telephone No. and E-mail address)	
Remarks	

Notes: Following documents shall be attached:

1. Color scans or copies of certification of independent legal personality;
2. For domestic Consultant, copies of supervision qualification certificates. Domestic Consultants with Class A Supervision Qualification Certificate for Highway Engineering or Special Supervision Qualification Certificate for Highway Mechatronics Engineering shall attach with relevant webpage screenshots in the List of Highway Engineering Construction Supervision Enterprises in National

Highway Construction Market Credit Information Management System
(<http://qlxy.mot.gov.cn/>), and the Consultant name and qualification certificate shall be the same with that in the List, otherwise the qualification would not be affirmed.

3. For joint venture, FORM-2 shall be filled in by each member separately.

FORM-3 Introduction of the Consultant (Self-made Format)

At least contains the following contents: the overall introduction, the introduction of core business, years in business, technical and managerial capability. If any, provide relevant documentations on the above-mentioned issues.

FORM-4A Summary of Consultant's Similar Experiences

No.	Name of the Assignment	Date of Acceptance	Contract Value
1			
2			
3			
...			

Consultant Name (Name of the Joint Venture): _____
_____(Seal)

Authorized Representative: _____(Signature)

Notes:

1. In accordance with para. 4.1.3 and 4.2 in REoI, only the **Similar Experiences performed independently in the past 5 years** (2017.1.1 - submission deadline of EOI) are considered, the Date of Acceptance prevails;
2. Detailed information of each experience shall be filled in FORM-4B, with the relevant documentations attached.

FORM-4B Details of Consultant's Similar Experiences

(For joint venture, filled by each member separately)

No.	__ of __ (total number)
Consultant (Member) Name	
Role	<input type="checkbox"/> Independent Consultant <input type="checkbox"/> Joint Venture Leader <input type="checkbox"/> Joint Venture Member
Assignment	
Location	
Date of Contract Signing	
Date of Acceptance	
Contact Value	
Client's Name	
Client's Address	
Client's telephone No.	
Undertake Independently	<input type="checkbox"/> Yes <input type="checkbox"/> No
Whether it is a new-built (or reconstructed or expanded) Expressway	<input type="checkbox"/> Yes <input type="checkbox"/> No
Scope of the Service	Meet the following requirements: <input type="checkbox"/> not less than 15 kilometers in length; <input type="checkbox"/> include subgrade engineering; <input type="checkbox"/> include asphalt concrete pavement engineering; <input type="checkbox"/> include grand bridge engineering; <input type="checkbox"/> include long tunnel or super long tunnel engineering; <input type="checkbox"/> include mechatronic engineering (including charging,

Assignment Description	
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Notes:

1. Each table is for one assignment, and mark with serial numbers;
2. Documentations indicating the requirements in para. 4 of REoI shall be attached, such as Contract. Experiences without relevant documentations or failed to be confirmed for such requirements would not be affirmed. For domestic Consultant, webpage screenshots of query result about the similar experiences in National Highway Construction Market Credit Information Management System (<http://glxy.mot.gov.cn/>) shall be attached, and documentations other than the webpage screenshots would not be affirmed;
3. Additional documentations would be necessary to confirm the succession of the experience in the situations such as Consultant's legal alteration or reconstruction and renaming of the Consultant.
4. For joint venture, FORM-4B shall be filled in by each member separately.