

TERMS OF REFERENCE (TOR)

for Consultancy Services for

Climate Assessment and Green and Smart Logistics Park Planning and Design

**for
the China-ASEAN Sea-Rail Multimodal Logistics Project**

April 2024

1. Project Background

To promote regional and cross-border trade and connectivity, the Qinbei District Government (QDG), the Qinzhou Municipal Government (QMG), and the Qinzhou Huangma Asset Management Group Co., Ltd. (QHMG) (collectively referred as “Project Owner”) are preparing the China-ASEAN Sea-Rail Multimodal Logistics Project (referred as “Project”) to be financed by the Asian Infrastructure Investment Bank (referred as “AIIB” or “Bank”) to support the development of a green and smart multimodal logistics park in Qinzhou, Guangxi Zhuang Autonomous Region (Guangxi), China.

The Project is planned to be adjacent to the existing Mahuang freight marshaling yard, the largest of its kind in the coastal region of Guangxi, and would integrate the freight marshaling yard with the Qinzhou Port, one of the key ports along the coastal line of the North Bay, and the regional highway network. In addition, the Project would add capabilities of streamlining cargo handling, storage, value-adding manufacturing, e-commerce as well as sales and distribution to the integrated local infrastructure system, which would play a pivotal role in realizing Qinzhou’s full economic potential as a Sea-Rail multimodal logistics regional center as well as promoting regional and cross-border connectivity. The Project supports Infrastructure 2.0, aiming to not only develop physical infrastructure but also promote operational sustainability including economic, environmental, and social sustainability.

Located at the gateway of the Western Land-Sea New Corridor (WLSNC), this Project is a flagship project supporting the Cross-Border Connectivity between China and ASEAN countries and other economies by addressing both capacity and efficiency challenges. Qinzhou serves as a key gateway connecting the southwest region of China to the Pearl River Delta Economic Zone domestically and to the Association of Southeast Asian Nations (ASEAN) region via the sea channel across the bay. ASEAN has become China’s largest international trading partner in the past few years and China has been ASEAN’s largest trading partner since 2009. Located in the China-ASEAN Economic Cooperation Zone designated by the Guangxi Zhuang Autonomous Region, this Project supports one of China’s top 10 ports and the largest port in southwest China, the Beibu Gulf Port, which includes three ports in the North Bay: Qinzhou Port, Fangchenggang Port, and Beihai Port.

The Project consists of the following four components, which may be further refined in later stages of project preparation: (1) Dedicated Rail Line and Cargo Yard, including a dedicated rail line connecting the cargo yard to the existing Mahuang Station, a cargo unloading and

uploading yard, and the reconstruction of the Mahuang Station due to the addition of the dedicated rail line; (2) Logistics Storage & Service Facilities, including cross-border e-commerce logistics and warehousing center, agricultural logistics and warehousing center, trade logistics center, cross-border cold chain logistics center, logistics industry center, smart logistics service center, cross-border e-commerce incubation center, comprehensive service center, and rooftop distributed photovoltaic power generation system, etc.; (3) Supporting infrastructure, including a 10-km entrance trunk road connecting the logistics park to the regional highway network, internal roads within the logistics park, and utility and service facilities such as water, gas, electricity, and landscaping; and (4) Smart Logistics Information Management Platform and Capacity Building such as research and training.

The total estimated capital cost of the Project is USD 405 million (approximately RMB 2,630 million), out of which AIIB plans to finance USD 300 million and the Project Owner is responsible for the remaining USD 105 million. The anticipated construction period of the Project is five years, from 2025 to 2030.

2. Objectives of the Assignment

The QHAMG is looking for an internationally recognized high-quality consultancy (referred as “Consultant”) to carry out climate assessments, planning and design work for the Project. The Consultant shall conduct climate mitigation (decarbonization) assessment, climate adaptation assessment (climate risk assessment), the Paris Agreement alignment assessment, and climate finance assessment. In addition, the Consultant shall develop a comprehensive plan and design for a green and smart logistics park that leverages sustainable practices and advanced technologies to optimize the logistics park’s construction and operations. The climate assessments shall be conducted per AIIB and Multilateral Development Banks (MDBs) standards and provide inputs to plan and design the green and smart logistics park. The planning and design work is essentially to develop a comprehensive, detailed Concept Plan for the Project that features green, resilience, and smart themes and can effectively guide the Preliminary / Schematic Design in the next phase.

3. Scope of Services

The Consultant’s scope of services includes the five interrelated tasks listed below. The Consultant shall work closely with the Project Owner and the Bank to ensure consistency between different, inter-related pieces of the Project’s due diligence work. The Consultant shall provide full transparency of the work, including but not limited to rationale, data sources, assumptions, strategies, calculations, drawings, results and their interpretations.

Task 1: Climate Mitigation (Decarbonization) Assessment

The Consultant shall conduct a comprehensive climate mitigation analysis of the Project, including calculating scope 1, 2 and 3 greenhouse gases (GHG) emissions for both baseline and Project scenarios, which are different combinations of mitigation strategies to be developed by the Consultant. Task 1 should provide inputs to Task 4, especially in developing feasible and practical climate mitigation strategies. The Consultant shall calculate other environmental benefits such as water savings and air pollution reductions that contribute to the “green” theme of the Project. The Consultant shall also quantify climate mitigation financing. More specifically, this Task includes the following activities at a minimum:

- 1) Conduct lifecycle greenhouse gases (GHG) emission assessments, including scope 1, 2 & 3 emissions for baseline and Project scenarios with proposed mitigation strategies. The Consultant shall follow established and widely accepted principles and standards in carrying out the GHG assessment, such as the GHG protocol (<https://ghgprotocol.org/>), which is accepted for the International Sustainability Standards Board (ISSB) reporting.
- 2) Plan and define the GHG assessment approach. Consider a lifecycle approach, which includes the entire lifecycle of the Project, from planning, design & engineering, construction, operations and maintenance, to decommissioning and demolition. This is considered as gross emission of the project.
- 3) Define the baseline and estimate the Project's baseline scope 1, 2 & 3 GHG emissions for the entire Project lifecycle.
- 4) Define Project scenarios with proposed mitigation strategies, and estimate the Project's scope 1, 2 & 3 GHG emissions for the whole Project lifecycle.
- 5) Work out the relative emissions as the difference between project scenario GHG emissions and baseline GHG emissions following the UNFCCC harmonized standards for IFI GHG accounting (<https://unfccc.int/climate-action/sectoral-engagement/ifi-harmonization-of-standards-for-ghg-accounting/ifi-twq-list-of-methodologies>).
- 6) Identify carbon abatement levers and their technical and fiscal feasibilities for implementation and develop a practical implementation roadmap to reduce the Project's lifecycle carbon footprint.
- 7) Establish a process for monitoring and evaluation the GHG assessment results to ensure reliability.
- 8) Assess the alignment of the project with the mitigation goals of the Paris Agreement. This assessment shall follow AIIB's methodology for assessing PA alignment (<https://www.aiib.org/en/how-we-work/paris-alignment/overview.html>).
- 9) Quantify other environmental benefits that might arise from the project (e.g., water, waste, energy, and other resource saving, air pollutants such as SO₂, CO, NO₂, O₃, PM_{2.5} and PM₁₀ abatements) using the same baseline and lifecycle methodology developed in this Task.
- 10) Estimate the climate mitigation finance for the Project, following the Common Principles for Climate Mitigation Finance Tracking (Dec. 5, 2025) (https://www.eib.org/attachments/documents/mdb_idfc_mitigation_common_principles_en.pdf). The Consultant shall work out the estimated costs associated with the recommended mitigation measures to be integrated into the Project design.
- 11) Develop a Climate Mitigation Report and affiliated calculation spreadsheets clearly document the above analyses and results.

Task 2: Climate Adaptation Assessment (Climate Risk Assessment or CRA)

The Consultant shall conduct a comprehensive Climate Risk Assessment for the Project, which is exposed to "High" risk of precipitation increase, flood, onshore Category 1 storms, sea level rise, and geological hazard including earthquake and tsunami, and "Medium" risk of temperature increase, precipitation decrease, wind speed increase according to the Aware tool. Task 2 should provide inputs to Task 4, especially in developing feasible and practical adaptation strategies. More specifically, this Task includes the following activities at a minimum:

- 1) Define the scope and CRA methodology: consult core project team members and review relevant project documents, to further define the scope of the CRA, including the physical, social and environmental boundaries to be considered, time horizon and relevant climate (& hydrological) variables for risk analyses, socio-economic and

emissions scenarios under which climate scenarios will be developed for the assessment, select a CRA methodology that represents good practice and reflects the context of the Project as well as local data availability.

- 2) Collect data and conduct analysis: collate all required datasets and information, including historic hydrometeorological data, initial project design documents, flood zoning maps, etc.
- 3) Conduct Climate risk assessment: identify all climate-sensitive components of the proposed project, and relevant climate hazards; assess the sensitivity of project components to relevant climate hazards; assess climate risks to each project component from all relevant climate hazards; identify embedded climate-resilient project design features and assess the degree to which they are expected to moderate the risks identified above; assess the residual climate risks after taking into account the effect of embedded climate-resilient design features.
- 4) Identify and appraise adaptation measures: in close consultation with the Project team, identify and assess potential adaptation measures that are suitable for inclusion in the Project design to address the residual climate risks.
- 5) Assess the alignment of the project with the adaptation goals of the Paris Agreement: in line with AIIB's methodology for assessing PA alignment, assess that any material physical climate risks to the proposed project are addressed including through the integration of additional adaptation measures, and that the proposed project activities are not inconsistent with the relevant policies on climate resilience, private sector or community-driven priorities. Detailed methodology is summarized in the table below and provided on this webpage: <https://www.aiib.org/en/how-we-work/paris-alignment/overview.html>

Table 1: Template for reporting on PA alignment (BB2)¹

Questions / assessment steps	Answer and justification
CRITERION 1: Establishment of Climate Risk and Vulnerability Context	
<u>Step 1: Identifying and assessing physical climate risk</u>	Yes. The physical climate risk assessment (CRA) was undertaken by XX and the overall results is considered medium/high risk, as some locations are prone to flooding. A detailed climate risk assessment was conducted, and adequate adaptation measures to address climate risks were integrated in project design. <i>A brief summary of the CRA findings in terms of climate exposure risks should be presented here</i>
Is the operation (including assets, stakeholders, and the system within which it takes place) at risk?	
CRITERION 2: Definition of the Climate Adaptation and Resilience Measures	
<u>Step 2: Addressing physical climate risks and building climate resilience</u>	Yes. Based on the CRA key adaptation and resilience measures to be implemented by the project include (i) upgrading the building materials to increase heat-resistance; (ii) installing sensors to detect physical damage of equipment during heavy rainfall spells; (iii) Adopting gust-resilient wind turbine design techniques; iv).... In addition, to the extent possible, the project will promote holistic climate resilience, including nature-based solutions, community or social resilience, institutional resilience and financial resilience.
Have climate adaptation and resilience measures been identified to reduce material physical climate risks and contribute to building climate	

¹ This table records the results of the assessment on the alignment of investment operations with the adaptation and climate resilience goals (BB2) of the PA. Explanatory text in the table below is to be replaced with actual report.

resilience?	<i>List all activities that include adaptation measures here</i>
CRITERION 3: Assessment of Inconsistency with a National/Broad Context for Climate Resilience	
Step 3: Assessing the broader climate resilience context Is the operation not inconsistent with relevant national policies/strategies, private sector or community-driven priorities for climate adaptation and resilience?	Yes. All project activities are not inconsistent with xx's national policies and strategies, private sector or community-driven priorities for climate adaptation and resilience. The proposed activities are fully consistent with draft national adaptation plan, and draft National Policy for Agricultural Development, 2022–2030; the National Strategic Development Plan 2019–2023; and the National Strategic Plan on Green Growth, 2013–2030. <i>Include analysis on the adaptation plans of the country/region and assessment of whether or not any of the proposed project activities is inconsistent with those</i>
Conclusion	<i>Aligned (or Not Aligned) as per BB2</i>

- 6) Estimate the climate adaptation finance for the Project, following the Joint Methodology for Tracking Climate Change Adaptation Finance (https://www.eib.org/attachments/lucalli/20220242_mdbs_joint_methodology_climate_finance_en.pdf). The Consultant shall work out the estimated costs associated with the recommended adaptation measures to be integrated into the Project design. A template for reporting on adaptation finance is provided in Table 2 below.

Table 2: Template for reporting on adaptation finance of the project²

In line with the joint MDB methodology for tracking adaptation finance in MDB financed operations, the following details need to be provided to “qualify” the adaptation measures for which associated cost is estimated and reported as adaptation finance:

Overview	
Project name	
Sector and subsector	
Reported adaptation finance	
Qualifying adaptation activities	
Vulnerability context	(For an activity to be considered as adaptation activity, the context of climate change vulnerability to experienced and anticipated impacts of climate change must first be set out clearly using a robust evidence base. Project documents may refer to existing analyses and reports or to original, bespoke assessments of climate change vulnerability.)
Statement of intent	Once a project's context of vulnerability to climate change has been established, the project documents should set out the explicit intention to address the identified climate change vulnerabilities. This is an important step to ensure experienced and anticipated impacts of climate change are considered in a project.

² Explanatory text in the table below is to be replaced with actual report.

Clear and direct link between climate change vulnerability and project activities

In line with the principles of the overall MDB climate finance tracking, adaptation finance estimations consider only the finance allocated to specific project activities that are clearly linked to the context of climate change vulnerability identified in Step 1 (vulnerability context). Therefore, where possible, projects are disaggregated into discrete activities. Adaptation finance is attributed only to the activities that clearly respond to the context of climate change vulnerability. Each project activity can then be assessed as an adaptation activity or not relevant for adaptation. When it is not possible to break a project down into activities, the project should instead be treated as a whole.

Estimating adaptation finance

The cost associated with the “qualified” adaptation measures can be estimated using one of the following two approaches:

- The **incremental approach** estimates the additional costs associated with the activities required to adapt the project to climate change against a hypothetical baseline where the project would aim to deliver expected results without addressing physical climate risks.
- The **proportional approach** refers to adaptation finance estimated as a proportion of the MDB finance that corresponds to the adaptation activities included in a project. This may be informed by a range of trusted information sources, including assessments of the cost of adaptation in similar operations or expert knowledge on the relevant sectoral practice. MDBs will continue to share and exchange knowledge on the criteria that may be used to inform the use of the proportional approach.

- 7) Complete a Climate Adaptation Final Report: detail the scope, methodology and findings of the CRA, and recommended adaptation measures to be included in the Project to address the residual climate risks identified; assessment of the alignment of the proposed project with the adaptation and climate resilience goals of the PA; and an estimate of the adaptation finance associated with the recommended adaptation measures.

Task 3: Benchmark Study of Green and Smart Logistics Parks

The Consultant shall conduct a benchmark study on international and China’s best practices in developing multimodal logistics parks to inform this Project’s green and smart logistics park planning and design. This Task includes the following activities at a minimum:

- 1) Review and summarize global including China’s best practices and future trends of planning and engineering design for green and smart logistics parks. The best practices and future trends should include aspects such as regulatory compliances, policy directions, industry groups’ interest and support, technical feasibility, cost efficiency, risk assessment and management, etc. A comparative analysis and benchmark study should be carried out to identify any gaps between China and global best practices.
- 2) Plan and conduct one or more in-person studies tours to learn the best practices of green and smart logistics parks. The Consultant shall work with AIIB and the Project Owner to define objectives of the study tour(s), plan logistics, select locations, engage stakeholders, provide network opportunities, conduct workshops, interviews, technology showcases, and site visits, document and summarize the findings of study tour(s) and their indications to the Project.
- 3) Develop a Benchmark Study report to summarize all findings and inform the Project.

Task 4: Green and Resilient Logistics Park Planning and Design

The Consultant shall develop a comprehensive, detailed green and resilient Concept Plan for the Project, taking into consideration of the outputs from Tasks 1-3. This Task includes the following activities at a minimum:

- 1) Conduct a thorough review of relevant Project contexts, including the existing draft concept plan elements in the Feasibility Study Reports, the output of the Demand and Economic Analysis and the Decarbonization and Climate Risk Assessment, and use these contexts to inform the Concept Plan.
- 2) Develop green and resilient logistics park design references and standards.
- 3) Set green and resilient design goals: provide several options of green and resilience goals and explain the rationale for setting these goals.
- 4) Develop sustainable technical strategies: show the selection of green building technologies, LID (Low Impact Development) technologies, low-carbon technologies, and conduct necessary qualitative and quantitative analysis on the rationality of technology selection and show how these technical strategies can be effectively applied in design scheme.
- 5) Define green and resilient design specifications: provide green design specifications of architecture; structure; mechanical electrical, and plumbing (MEP) system; extra low voltage (ELV) system, landscaping, etc.
- 6) Design key technical measures: Provide calculation sheets, technical parameters, node details, system diagrams, design specifications for key technical measures.
- 7) Estimate cost: calculate and list the additional costs due to green and resilient technologies.
- 8) Develop a pathway to obtain relevant Green and Resilient certificates, e.g., Leadership in Energy and Environmental Design (LEED), and Building Research Establishment Environmental Assessment Method (BREEAM)
- 9) Work with Preliminary Design and Construction Design consultant(s) to ensure this Green and Resilient Concept Plan is adequately implemented in the Preliminary Design and Construction Design.

Task 5: Smart Logistics Park Planning and Design

The Consultant shall develop a detailed Smart Concept Plan for the Project in this task, which includes the following activities at a minimum:

- 1) Develop smart logistics park design references and standards.
- 2) Set smart logistics park goals.
- 3) Conduct an overall demand survey and perform an analysis of smart planning and design. Conduct surveys and interviews with property owners, property operators, and other necessary personnel to form a demand list. Demand survey and analysis includes but is not limited to the following content:
 - Management framework analysis
 - Analysis of various roles and demands, including on-site asset management, operational management, security management, customer service, etc.
 - Application scenario analysis, including but not limited to evaluating the expected effects, construction costs, and other parameters of each scenario.

- Analysis of standardized and systematic requirements for operational management
 - Suggestions for standard specifications and standard processes for digital asset management.
 - Identify pain points in on-site operation management.
 - Sort out the requirements for project carbon management and environmental, social, and governance (ESG)
 - Sort out display level requirements.
 - Create a list of requirements for different scenarios.
 - Software platform construction, including but not limited to system architecture, functional list, and scenario description.
 - Propose implementation requirements, construction roadmap, and schedule.
- 4) Conduct smart scene planning. In order to achieve the overall goal, smart scene planning is carried out based on demand research and analysis reports from the above. This includes but is not limited to:
- Smart traffic, including vehicle traffic, personnel traffic, visitor reservation, and entry and exit statistics.
 - Smart security, including video security, duty position management, AI security, and vehicle violations.
 - Smart fire protection, including fire protection system monitoring, fire water system monitoring, fire alarm management, and fire maintenance.
 - Energy consumption management, including energy consumption facility management, remote water and electricity meter reading, energy consumption measurement, and energy safety.
 - Asset management, including asset archive management, inspection plan management, work order management, and operation management reports.
 - Smart stations, including digital platforms, scheduling management, entry rules, and exit rules.
- 5) Develop smart design drawings:
- Develop specifications for smart planning and design: Including but not limited to design standards, framework, business scenario, system description, technical requirements, point planning principles, subsystem framework principles, system function list, etc.
 - Develop smart subsystem system diagram and design description.
- 6) Estimate cost: calculate and list the costs of the smart system.
- 7) Work with Preliminary Design and Construction Design consultant(s) to ensure this Smart Concept Plan is adequately implemented in the Preliminary Design and Construction Design.

4. Deliverables and Payment Schedule

The Consultant shall complete the Scope of Services described above within six (6) months. The deliverables and payment schedule are provided as follows. The Consultant shall develop their methodology based on the indicated timeline and budget.

Table 3: Deliverables and Payment Schedule

Task	Key Deliverables	Format	% of Contract Value (indicative)	Payment Schedule	Expected Deadline (months from contract)

					signing date)
1	<ul style="list-style-type: none">Climate Mitigation ReportSupporting data and documents	1 PDF report Excel file(s)	10%	First payment	3
3	<ul style="list-style-type: none">Benchmark study reportStudy tour(s) summary report	2 PDF reports	3%		1
4	<ul style="list-style-type: none">Analysis Report on the Application of Green and Resilient Technology Measures	1 PDF Report 1 PPT	32%		2
	<ul style="list-style-type: none">Green & Resilient Design Specifications	1 CAD drawings 1 PDF Drawings 3 Paper Drawings			2
	<ul style="list-style-type: none">Design of key technical measures	1 CAD drawings 1 PDF Drawings 3 Paper Drawings			2
	<ul style="list-style-type: none">Cost estimation of Green and Resilient Technology Measures	1 PDF Report 1 PPT			3
2	<ul style="list-style-type: none">Climate Adaptation ReportSupporting data and documents	1 PDF Report Excel file(s)	15%	Second payment	4
5	<ul style="list-style-type: none">Overall demand survey and analysis of smart planning and design	1 PDF Report 1 PPT	30%		4
	<ul style="list-style-type: none">Smart scene planning report	1 PDF Report 1 PPT			4
	<ul style="list-style-type: none">Intelligent design drawings	1 CAD drawings 1 PDF Drawings 3 Paper Drawings			5
	<ul style="list-style-type: none">Cost estimation of Intelligent system	1 PDF Report 1 PPT			5
1~5	<ul style="list-style-type: none">Workshops,training, seminars and conferences	Minutes of Meeting Training Plan	10%	Third payment	5

5. Consultant Qualifications

The following requirements are a broad description of the likely expertise needed for this consultancy assignment. The Consultant may propose additional experts in the Technical Proposal as may be needed to fulfil this TOR. The Consultant may mobilize supporting experts and administrative staff, including translators and editors, as necessary to execute the Scope of Services. The Consultant is encouraged to engage diverse team compositions, including a mixture of genders. The Consultant is expected to:

- be a firm or a consortium of them, with appropriate and sufficient capabilities, resources, and experience to execute the full extent of the Scope of Services to a very high quality;
- have demonstrated experience in (a) climate mitigation assessment, (b) climate adaptation assessment, and (c) Paris Agreement Alignment assessment in the context of infrastructure projects. Experience in climate assessment for freight transport infrastructure including logistics parks is a plus.
- have a proven record of completing at least three similar assignments successfully in the past five years;
- bring a good mix of relevant international and national expertise - international consultants are encouraged to team up with local Chinese consulting firms/think tanks/academic institutions, if it enhances the team's qualifications and expertise; and
- formulate a dedicated project team with the relevant qualifications, work experience, communication skills (English and Chinese), and project management skills.

The suggested composition of the core team is as follows:

Table 4: Suggested Core Team and Qualifications

No.	Role	Minimum Qualification Requirements
1	Project Manager	<ul style="list-style-type: none"> • 15+ year of relevant experience in climate assessment or green and smart logistics park planning and design • Managed 3+ comparable projects in the last 5 years
2	Senior Climate Mitigation Specialist	<ul style="list-style-type: none"> • 7+ years of relevant experience in climate mitigation • Experience with international financial institutions (IFIs)
3	Senior Climate Adaptation Specialist	<ul style="list-style-type: none"> • 7+ years of relevant experience in climate adaptation • Experience with international financial institutions (IFIs)
4	Architect	<ul style="list-style-type: none"> • 10+ years of experience in logistics architecture design • National 1st Grade Registered Architect
5	Structural Engineer, Structural Design Director	<ul style="list-style-type: none"> • 10+ years of experience in logistics structural design • National Registered Structural Engineer
6	Electrical Engineer, Electrical Design Director	<ul style="list-style-type: none"> • 8+ years of experience in logistics electrical design • National Registered Electrical Engineer
7	Plumbing Engineer, Plumbing Design Director	<ul style="list-style-type: none"> • More than 8 years of experience in logistics plumbing design • National Registered Plumbing Engineer
8	HVAC Engineer, HVAC Design Director	<ul style="list-style-type: none"> • 8+ years of experience in logistics HVAC design • National Registered HVAC Engineer
9	Sustainable Development Consultant, Sustainable consulting and design	<ul style="list-style-type: none"> • 8+ years of experience in sustainable consulting and design • Sustainability related certificates
10	Intelligent Engineer, Intelligent system consulting and design	<ul style="list-style-type: none"> • 8+ years of experience in intelligent system consulting and design • Intelligent related certificates

The key experts for this Consultancy Services and required person-months are shown in the following table.

Table 5: Key Experts and Person-months Input

No.	Position	Indicative inputs in person-months
		International
1	Project Manager	6
2	Senior Climate Mitigation Specialist	5
3	Senior Climate Adaptation Specialist	5
4	Architect	4
5	Structural Engineer, Structural Design Director	4
6	Electrical Engineer, Electrical Design Director	4
7	Plumbing Engineer, Plumbing Design Director	4
8	HVAC Engineer,HVAC Design Director	4
9	Sustainable Development Consultant, Sustainable consulting and design	5
10	Intelligent Engineer, Intelligent system consulting and design	5
	Total	46