



REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE
GABINETE DO PRIMEIRO MINISTRO
COMISSÃO NACIONAL DE APROVISIONAMENTO
Av Rua Dos Direitos Humanos, Dili, Timor-Leste

**CONSULTING SERVICES FOR THE CONSTRUCTION SUPERVISION OF
SUAI-FATUCAI/MOLA SECTION OF THE SUAI-BEACO HIGHWAY ROAD PROJECT
Contract No.: RFP/008/MPW-MPMR-2013**

ADDENDUM No. 1

June 27, 2013

This Addendum No. 1 is issued to amend certain items in the RFP in accordance with Clause 2.2 of the Instruction to Consultants for RFP/008/MPW-MPMR-2013, Consulting Services for the Construction Supervision of Suai-Fatucal/Mola Section of the Suai-Beaco Highway Road Project.

- 1. Section 2 – Instructions to Consultants and Data Sheet, 2.1 Data Sheet, page 20, 1.4** is amended as follows:

1.4	<p>The Government will provide the following:</p> <ul style="list-style-type: none">a. Office accommodation and vehicles to be provided to the Consultant free-of-charge through the construction contractor, as follows:<ul style="list-style-type: none">• Site Office building furnished space area building 200 sq.m. complete with sanitation, air condition, electricity, wifi LAN, water supply, and toilets;• Vehicle except maintenance and operation: eight (8) units Ford Ranger 4-wheel drive or equivalent with air condition, brand new and sixteen (16) units motorbike Honda GL or equivalent.b. Counterpart staff according to availability for assistance with surveys and progress monitoringc. Assistance and advice on the processing of visas and work permits for Consultant staff as requested.d. Laboratory Equipmente. Survey Equipment
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- 2. Section 2 – Instructions to Consultants and Data Sheet, 2.1 Data Sheet, page 21, 2.1** is amended as follows:

2.1	<p>Clarifications may be requested not later than Twenty-one (21) days before the deadline of proposal submission.</p> <p>The address for requesting clarifications is:</p> <p>Mr. Aniceto do Rosario National Procurement Commission Rua dos Direitos Humanos, Dili, Timor-Leste Email address: adorosario@npc.gov.tl copies to gsharma@charleskendall.com and</p>
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3. **Section 2 – Instructions to Consultants and Data Sheet, 2.1 Data Sheet, page 21, 3.6 and 3.8 (iii) g** is amended as follows:

3.6 and 3.8 (iii) g	<p>Minimum number of person-months that must be shown on the personnel schedule are:</p> <table> <tr> <td>Core Team Professional:</td> <td>99 person-months</td> </tr> <tr> <td>Professional Staff:</td> <td>177 person-months</td> </tr> <tr> <td>Field Team Sub-Professional:</td> <td>264 person-months</td> </tr> </table>	Core Team Professional:	99 person-months	Professional Staff:	177 person-months	Field Team Sub-Professional:	264 person-months
Core Team Professional:	99 person-months						
Professional Staff:	177 person-months						
Field Team Sub-Professional:	264 person-months						

4. **Section 2 – Instructions to Consultants and Data Sheet, 2.1 Data Sheet, page 22, 4.5** is amended as follows:

4.5	<p>Consultant must submit the original and three copies of the Technical Proposal with CD, and the original Financial Proposal with CD to the Employer to the following address:</p> <p style="text-align: center;">BID BOX Office of the National Procurement Commission Rua dos Direitos Humanos, Dili, Timor-Leste</p> <p>Proposals must be submitted no later than the following date and time: <u>18 July 2013; 1500 HOURS TIMOR-LESTE TIME</u></p>
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5. **Section 2 – Instructions to Consultants and Data Sheet, 2.1 Data Sheet, page 22, add the following** after 4.5:

4.6	<p>The Technical Proposal opening shall take place at:</p> <p>Address: Office of the National Procurement Commission Rua dos Direitos Humanos, Dili, Timor-Leste</p> <p>Date: 18 July 2013</p> <p>Time: 1500 hours Timor-Leste time</p>
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6. **Section 2 – Instructions to Consultants and Data Sheet, 2.1 Data Sheet, page 23,** is amended as follows:

5.3	<p>Expected date for public opening of Financial Proposals:</p> <p>Address: Office of the National Procurement Commission Rua dos Direitos Humanos, Dili, Timor-Leste</p> <p>Date: 09 August 2013</p>
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7. **Section 2 – Instructions to Consultants and Data Sheet, 2.1 Data Sheet, page 23,** is amended as follows:

6.1	Expected date and address for contract negotiations:
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	Address: Office of the National Procurement Commission Rua dos Direitos Humanos, Dili, Timor-Leste
	Date: 30 August 2013

8. **Section 2 – Instructions to Consultants and Data Sheet, Appendix 1-Summary Evaluation Sheet, Page 25, Personnel (Areas of Expertise),** is amended as follows:

III	Personnel (Areas of Expertise)	Max. Weight
	Team Leader, Senior Civil Engineer	90
	Quality Assurance Visiting Specialist	60
	Senior Geodetic Engineer	30
	Environmental Engineer Specialist	60
	Contract Engineer Specialist	60
	Senior Chief Supervising Engineer	60
	Highway Engineer, Specialist Highway Civil Engineer	50
	Structural Engineer, Specialist Structural Engineer	50
	Chief Inspector (Senior Civil Engineer)	50
	Soils and Materials /Quality Engineer	50
	Quantity Engineer/Document Specialist	40

9. **Section 3 – Technical Proposal – Standard Forms, Form Tech-2C- Consultant’s Experience in Timor-Leste or South East Asia, page 6,** is amended as follows:

Add in last sentence in [] the following:

List only previous similar assignment successfully completed in the last ten (10) years.

10. **Section 5 – Terms of Reference, I. Introduction, 4. Scope of Services, page 4,** is amended as follows:

The scope of services for the Construction Supervision Consultant is follows:

- a. **Mobilization and construction supervision preparation, 1 month**
- b. **To carry out construction supervision for the Suai-Fatucai/Mola Section for 24 months.**
- c. **To provide services for contract close-out, 2 months after construction.**

11. **Section 5 – Terms of Reference, VIII. Construction Supervision Input, Pages 18 to 30,** is amended as shown in **Attachment No. 1.**

12. **Section 6 –Standard Forms of Contract: II. General Conditions of Contract, Clause 6.4 Mode of Billing and Payment, page 26,** is amended as follows:

Add the following Sub-Clause 6.4 (h) after 6.4 (g):

The Employer will retain the amount specified in the SC from each progress payment as performance and quality guarantee for satisfactory performance of the Contract. The total retention money will be payable after successful completion of the Contract.

13. **Section 6 –Standard Forms of Contract: III. Special Conditions of Contract, page 31,** is amended as follows:

Add the following after 6.4(e):

6.4 (h)	The amount of retention money is five percent (5%) of each progress payment.
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14. Section 6 –Standard Forms of Contract: Appendices, Appendix F, is amended as follows:

The Employer will provide the following inputs and facilities:

- a. Office accommodation and vehicles to be provided to the Consultant free-of-charge through the construction contractor, as follows:
 - Site Office building furnished space area building 200 sq.m. complete with sanitation, air condition, electricity, wifi LAN, water supply, and toilets;
 - Vehicle except maintenance and operation: eight (8) units Ford Ranger 4-wheel drive or equivalent with air condition, brand new and sixteen (16) units motorbike Honda GL or equivalent.
- b. Counterpart staff according to availability for assistance with surveys and progress monitoring
- c. Assistance and advice on the processing of visas and work permits for Consultant staff as requested.
- d. Laboratory Equipment
- e. Survey Equipment


Aniceto Do Rosario
National Procurement Commission



ATTACHMENT NO. 1

Terms of Reference

VIII. Construction Supervision Input

I. CONSTRUCTION SUPERVISION INPUT

1. Information

- a. To implement the tasks, the Construction Supervision Consultant should collect information required, aside from the information provided by the Owner.
- b. The Construction Supervision Consultant should check the validity of information to be used in the implementation of his tasks either the information provided by the Owner or collected by himself.
- c. The faults of construction supervision work as the result of faults of information will be the responsibility of the Construction Supervision Consultant.
- d. The information required and to be obtained for supervision are as follows:
 - 1) Shop drawings
 - 2) Technical Specifications
 - 3) Minutes of Pre-bid Meeting and Assignment of Contractor
 - 4) Contract document of Contractor
 - 5) Work Schedule, Bar-Chart, "S" Curve, and Network Planning prepared by the Contractor
 - 6) Terms of Reference of Construction Supervision
 - 7) Regulations, standards and manuals including technical guidance for quality control testing.

2. Personnel

The Construction Supervision Consultant should provide qualified personnel to fulfill the requirements for the satisfactory implementation of the services, with consideration on the scope of works or the level of complexity of the works. The consultant organization shall consist of core team and field team, and should be effective to implement consultant task.

- Position, requirement and their responsibility are clearly stated
- Number of personnel , total man- month are clear



The personnel required for this construction supervision activities consists of the following:

a. Core Team Professional

1) Team Leader (Senior Civil Engineer)

Team Leader should be a senior civil engineer with a Graduate Degree in Civil Engineering from recognized university and relevant minimum 18 years experience in construction supervision works of toll road and long span bridge construction works with prestressing concrete technology. The Team Leader must have expertise in contract procurement, contract administration, and contract management for civil engineering works and thoroughly familiar with internationally accepted design system and standardized contract documents.

The tasks of the Team Leader are the following:

- a) To be responsible directly to Project Manager and responsible for overall coordination of Consultant Team activities.
- b) During construction preparation stage, to coordinate with and assist the Project Owner to prepare tender assistance for Contractor.
- c) To organize construction supervision team and take responsibility to check, verify and approve all required drawing for construction done by the Contractor.
- d) To monitor the submissions of regular report from Contractor, to ensure quality, accuracy and timeliness, and intervention to ensure that they are error-free, including advising Project Manager on proper completion of data reports, and monitoring their performance.
- e) To assist the Project Manager to manage financial plan including monthly, quarterly and yearly financial plan and project completion report.
- f) To monitor the accuracy and timeliness of data entry, initial processing and transfer of data and report to Project Manager.
- g) To obtain appropriate reports and information from Procurement Committees and compilation of regular procurement reports from participating entities.
- h) To monitor the implementation performance of the project with Chief Supervising Engineer.

- i) Levels of activity in and adherence to public disclosure policy postulated for project including Environmental Impact Assessment.
- j) Level of participation of Community Representatives in project-related meetings.
- k) To ensure performance of complaints handling mechanism established for the project.
- l) To ensure that all provisions of the Terms of Reference are fulfilled to the complete satisfaction of Project Owner in connection with organizing and implementing the project.
- m) To assist the Project Owner as required in supervising and monitoring the construction progress and quality.
- n) To coordinate the works with field team to ensure that all detailed field engineering for the major roads and bridges, contract mobilization periods for each contract package for the purpose of defining the location and extent and quantity of those work items which are only partially specified in contract documents.
- o) To provide satisfactory technical justification for major Contract Change Order and Addenda.
- p) To ensure that the Project Owner policies and standards are implemented in all contract packages.

2) Quality Assurance Visiting Specialist

Quality Assurance Visiting Specialist should be a senior civil engineer with a Graduate Degree in Civil Engineering from recognized university and relevant minimum 15 years experience in construction supervision work of highways and bridges.

The tasks of the Quality Assurance Visiting Specialist are the following:

- a) To provide close supervision of the setting-up, organization and layout of Contractor's field laboratory and monitoring of the mobilization of the testing equipment, to ensure well in advance at the start of construction that the laboratory is adequately equipped and capable of performing all the specified testing requirements for the Contract.
- b) To provide close supervision of the setting-up of the Contractor's equipment, including stone crusher and asphalt mixing plant, to ensure that the specified requirement for such equipment are fully met.

- c) To provide close supervision of the setting-up of Contractor's quality system and administration.

3) Senior Geodetic Engineer

Geodetic Engineer should be a senior geodetic engineer with a Graduate Degree in Geodetic Engineering from a recognized university and relevant minimum 8 years experience in geodetic engineering of toll road or arterial road project, and familiar with operating Total Station Survey equipment, data processing and reporting.

The tasks of the Geodetic Engineer are the following:

- a) Responsible for ensuring that the Contractor field survey and work shop drawings are in accordance with the actual condition before approval by the Chief Supervising Engineer.
- b) Responsible for ensuring the Contractor field survey and staking out for geometric and coordinate points are correct and in accordance with the work shop drawings.

4) Environmental Engineer (Senior Environment Specialist)

Environmental Engineer should be a senior Environmental Engineer with a Graduate Degree in Environmental Engineering/Social Science from a recognized university and relevant minimum 10 years experience in environmental management planning and infrastructure projects in developing tropical countries such as Timor-Leste. Environmental Engineer shall coordinate and supervise the implementation of the standard mitigation measures set out in the Environmental Management Plan and Environmental Monitoring Plan for road works under construction.

The tasks of the Environment Engineer are the following:

- a) To review the Contractor's environmental management plan to ensure that it meets all project objectives with respect to environmental and social issues.
- b) To monitor the environmental controls and impacts and prepare a checklist of compliance contract package during construction. The detail of the checklist will be agreed before-hand with the Project Owner. Comprehensive environmental study to assist the Project Owner in setting-up environmental conservation strategy/methods in the future.

- c) To supervise the monitoring of present environmental condition during and after construction, which shall include among others the following:
 - Water pollution
 - Air pollution
 - Noise and vibration
- d) To manage and monitor the Environmental Management Plan (EMP) and Environmental Monitoring Plan (EMP) requirement, monitoring the compliance of the Project with conditions stated in Environmental Management Plan and Environmental Monitoring Plan, and make necessary recommendation on environmental mitigation measure to Project Owner and Contractor.
- e) To promote the use of environmental safeguards at all stages of the works.
- f) To monitor the environmental and social impact using check lists.

b. Field Team Professional

1) Chief Supervising Engineer (Senior Civil Engineer)

Chief Supervising Engineer should be a senior civil engineer with a Graduate Degree in Civil Engineering from a recognized university and relevant minimum 15 years experience in design and construction supervision of toll road and long span bridge construction works with concrete prestressing technology, covering highways engineering, highway material and contractual philosophy of the project. The Chief Supervising Engineer shall assist and deal on a day-to-day basis with Team Leader coordinating construction supervision especially Field Team consultant.

The tasks of the Chief Supervising Engineer are the following:

- a) To assist and work together with Team Leader dealing all coordination with Project Manager such as liaison with the Project Owner, liaison with and reporting to his own Head Office, coordination with other authorities, responsibility for technical and progress planning/reporting, managing technical and financial administration, quality and cost control, and guiding his staff in their respective tasks.
- b) Responsible for all activities of Field Team members. To carry out duties in ensuring that the construction work is accomplished fully in accordance with the engineering design, specification, and contract document requirements.



- c) Responsible for reviewing and evaluating with Team Leader and Contractor regarding the safety, progress, quality and cost of the works.
- d) Responsible for monitoring the site works, foreseeing problems arising and proposing solution.
- e) To advise Team Leader on necessary variations to the work and inform the effect of all variations on the time completion, progress, quality and cost of the works.
- f) To advise Team Leader on any redesign work necessary due to Project Owner requirement or to change site condition and inform the effect of all redesign on the time completion, progress, quality and cost of the works.
- g) To supervise construction work on site which should be done based on specification requirement.
- h) Responsible for monitoring the site works, foreseeing problems arising and proposing solutions.
- i) To assist and provide any coordination action on site among all stake holders.
- j) To certify each payment in accordance with progress and measurement.

2) Highway Engineer (Senior Civil Engineer/ Highway Specialist)

Highway Engineer should be a senior civil engineer with a Graduate Degree in Civil Engineering from a recognized university and relevant minimum 10 years experience in highway engineering projects, and possesses Certificate of Expertise issued by a professional institution. The Highway Engineer is responsible for carrying out, check and verify all types of geometric design especially toll road or arterial road, and thoroughly familiar with international design standards (AASHTO Standard reference).

The tasks of Highway Engineer are the following:

- a) To check and verify the highway design drawing for Suai-Beaco Highway Construction Project in line with existing field conditions and accommodate input from road stakeholder.
- b) To supervise and review the preparation of "As-Built" drawings for approval of Project Owner and inspect the work and check material,

including testing of materials in accordance with Project Owner requirements.

- c) Responsible for ensuring that the Field Teams are aware of any special construction requirement, highway design and drainage problems, and take any necessary review under the direction/guidance of Team Leader.
- d) Responsible for assisting Project Owner throughout the implementation of the project, and with evaluation of all design review, major change order proposals and Addenda, which are endorsed to Project Owner for approval.
- e) To check and verify the review of major design changes or technical specification changes proposed prior to approval.

3) Structural Engineer (Specialist Civil Structural Engineer)

Structural Engineer should be a senior civil engineer with a Graduate Degree in Civil Engineering from a recognized university and relevant minimum 10 years experience in civil engineering projects covering long span bridges with precast prestressing concrete technology, box traffic tunnel, and possess Certificate of Expertise issued by a professional institution. The Structural Engineer should be responsible for carrying out, check and verify all types of structural design especially toll road design, and thoroughly familiar with international standards.

The tasks of Structural Engineer are the following:

- a) Check and verify the design of structural drawings for Suai-Fatucai/Mola Section Project in line with existing site conditions especially for the underpass crossing with the existing road.
- b) Responsible for ensuring that the Field Teams are aware of any special construction requirements including inspecting works, review the preparation of "As-Built" drawings, and testing of materials in accordance with Project Owner requirements.
- c) Check and verify the review of major design changes or technical specification change proposed for approval.
- d) Control and organize the field staff in executing the supervision related to all structures of the project.

4) Chief Inspector (Senior Civil Engineer)

Chief Inspector should have a Graduate Degree in Civil Engineering from a recognized university and relevant minimum 8 years experience in highway and bridge construction supervision especially toll road or arterial road, and possess Certificate of Expertise issued by a professional institution.

The tasks of Structural Engineer are the following:

- a) Reside very close to the contract package he is to supervise.
- b) Responsible for all site work activities. Assist the Supervising Engineer in carrying out duties in ensuring that construction work is accomplished in full accordance with the engineering design, specifications, and other contract documents.
- c) Travel up and down the works in progress inspecting on daily basis. He prepares daily reporting regular progress information on construction activities, weather, deliveries of materials, equipment on site, special events, etc. using standard report form to be submitted to the Supervision Engineer and review and evaluate adequacy of the Contractor work activities.
- d) To prepare report for the Supervising Engineer when any critical path has been delayed and advice on action to be taken to ensure that construction progress is maintained.

5) Soils and Materials / Quality Control Engineer

Soils and Materials/ Quality Engineer should have a Graduate Degree in Civil Engineering from a recognized university and relevant minimum 8 years experience in Quality Control of highway and bridge construction supervision especially toll road or arterial road, particularly with regards to providing continuous on-the-job supervision and measurement of all the Contractor's activities, and possess Certificate of Expertise issued by an professional institution.

The tasks of Soils and Materials / Quality Engineer are the following:

- a) To provide daily supervision of Contractor's quality system and administration.
- b) To provide daily supervision of all testing work carried out by the Contractor for the purpose of materials or workmanship quality control, and immediately notify the Chief Supervising Engineer in

writing of any deficiencies in the testing procedures used and any defects in materials or workmanship quality.

- c) To analyse all quality control test data, including earthworks, drainage, shoulders, sub-base, base, pavement, structure, and also the Contractor's proposed mix recipes for aggregate base course, asphalt material and concrete, and formulate and submit to the Chief Supervising Engineer written recommendation regarding the approval or rejection of materials, workmanship and mix formula.
- d) To supervise all quality control test including earthworks, aggregate base course, pavement, concrete test carried out by the Contractor, to ensure that the number of test and procedure taken is not less than the specified minimum requirement and is sufficient to enable a meaningful statistical evaluation of the works achieved.
- e) Check all materials delivered to the site to ensure that they conform to the specification.
- f) To submit to the Chief Supervising Engineer before the 25th day of each month a monthly summary of all quality control test results has been done obtained during the previous month, for transmittal by the Supervising Engineer. The report contains all detailed laboratory and field measurements as well as summaries of the data.
- g) To make every effort to ensure that the Contractor's site Laboratory Technicians are fully conversant with the specified method of testing including those for concrete and asphalt mix design and trial mix testing, and that the standardized laboratory forms are used for recording the mix design data.
- h) To provide assistance to visiting staff from Local Government or their consultants in their works of collecting quality control, asphalt production and pavement performance data and with their on-site training of the site laboratory personnel in appropriate technology and the associated testing methodology.
- i) In the event that the work is being carried out to a standard below that specified or with materials below the specified quality, and the Contractor either refuses, or fails within a reasonable time, to make good the defective work, the Soils and Materials/Quality Engineer shall notify the Chief Supervising Engineer and the Team Leader in writing.

6) Quantity Engineer/Document Specialist

Quantity Engineer/Document Specialist should be a qualified Civil Engineer with a Graduate Degree in Civil Engineering from a recognized university and relevant minimum 8 years experience in engineering quantity surveying techniques and appropriate relevant experience in road construction in highway and bridges especially toll road or arterial road, and possess Certificate of Expertise issued by a professional institution.

The tasks of Quantity Engineer/Document Specialist are the following:

- a) Responsible for setting of the works including temporary work, measuring all quantities, keeping records of all measurements and quantity calculation.
- b) To assist the Chief Supervising Engineer in preparing the payment certificate and also report to him the progress of the works.
- c) Responsible for and monitor the Contractor's quantity surveyor activities.
- d) To check all quantity materials delivered to the site to ensure that they confirm to the requirements of the contract documents.
- e) To provide close supervision of the setting up the Contractor's stone crushers and asphalt mixing plant to ensure that the quality requirements for such equipment are fully met.
- f) To submit to the Chief Supervising Engineer before the 25th day of each month a monthly summary of all quantity material, work progress obtained during the previous month, for transmittal by the Chief Supervising Engineer to the Team Leader office to and reporting to Project Manager. This summary will contain all the detailed field measurement as well as summaries of the reduced data.
- g) To plot the Contractor's daily work progress on approved Progress Schedule.
- h) At all times follow the technical guidance and seek the advice of the Chief Supervising Engineer with regard to the execution of his duties.
- i) To prepare detailed and quantified recommendations for any proposed contract variation, which involve major/minor changes in the design or in the specifications
- j) To prepare detailed and quantified recommendation for any additional designs, which are required during the course of construction
- k) Continuously supervise in person, and record and check, all measurement quantity calculation and payment certificates to ensure

that the Contractor is paid strictly in accordance with the requirements of the Contract Document.

- l) To keep a daily summary of the construction activities, weather, deliveries of materials, the changing size and nature of the work force, equipment on site, quantity of work completed, field measurements, special event, etc. using standard report form which are to be submitted to Chief Supervising Engineer at the end of each day work.
- m) To maintain files of project correspondence, progress charts, measurement, etc.
- n) To assist the Chief Supervising Engineer in taking final measurement of fully completed segments of work.

a. Core Team Professional

- 1. Team Leader, Senior Civil Engineer
- 2. Quality Assurance Visiting Specialist
- 3. Senior Geodetic Engineer
- 4. Senior Environment Engineer Specialist
- 5. Contract Engineer Specialist

b. Professional Staff

- 1. Senior chief Supervising Engineer
- 2. Highway Engineer (Senior civil engineer)
- 3. Structural Engineer (Senior civil engineer)
- 4. Chief inspector (Senior civil engineer)
- 5. Soil and Material /Quality Control Engineer
- 6. Quantity Engineer

c. Field Team Sub Professional Staff

- 1. Earthwork and Pavement Inspector
- 2. Structure Inspector (Senior Civil Engineer)
- 3. Laboratory Technician
- 4. Quantity Surveyor
- 5. Geodetic Surveyor

d. Local Counterpart

1. Civil Engineer
2. Asst. Structure Engineer
3. Junior Engineer, Graduate Internship Program (UNTL GIP)
4. Asst CAD Operator
5. Asst. Lab Technician
6. Assistant Adm/Finance

e. Counterpart is a local personnel to assist the engineers, the counterpart is part of the field organisation of the engineer

3. Minimum Person-Month of Consulting Services

No.	Personnel	Qty.	Minimum Months	Total
A.	Core Team Professional			
1.	Team Leader, Senior Civil Engineer	1	27	27
2.	Quality Assurance Visiting Specialist	1	6	6
3.	Senior Geodetic Engineer	1	3	3
4.	Environmental Engineer Specialist	2	18	36
5.	Contract Engineer Specialist	1	27	27
B.	Professional Staff			
1.	Senior Chief Supervising Engineer	1	27	27
2.	Highway Engineer, Specialist Highway Civil Eng.	1	27	27
3.	Structural Engineer, Specialist structural Eng.	1	27	27
4.	Chief Inspector (Senior Civil Eng)	2	24	48
5.	Soils and Materials/ Quality Engineer	1	24	24
6.	Quantity Engineer/Document Specialist	1	24	24

C.	Field Team Sub Professional			
1.	Earthwork and Pavement Inspector	2	24	48
2.	Structure Inspector, Senior Civil Eng.	3	24	72
3.	Laboratory Technician	2	24	48
4.	Quantity Surveyor	2	24	48
5.	Geodetic Surveyor	2	24	48
D.	Core Team Support Staff			
1.	Office/Admin Manager	1	27	27
2.	Cad Operator	2	24	48
3.	Computer Operator	2	27	27
	TOTAL			642

Local Counterpart Staff (Provided by the Government)

E.	Local Counterpart Staff			
1.	Senior Engineers	3	24	72
2.	Asst. Structure Engineer	2	24	48
3.	Junior Engineers	6	24	144
4.	Asst. Laboratory Engineer	2	24	48
5.	Asst. Admin & Finance	1	24	24
	TOTAL			336

1. Facilities Provided by the Government of Timor-Leste

The Government will provide the following:

- a. Office accommodation and vehicles to be provided to the Consultant free-of-charge through the construction contractor, as follows:
 - Site Office, 200 sq.m. area, complete with sanitation, air condition, electricity, wifi LAN, water supply, and toilets (excluding office furniture and office equipment);
 - Vehicle except maintenance and operation: eight (8) units Ford Ranger 4-wheel drive or equivalent with air condition, brand new and sixteen (16) units motorbike Honda GL or equivalent.
- b. Counterpart staff according to availability for assistance with surveys and progress monitoring
- c. Assistance and advice on the processing of visas and work permits for Consultant staff as requested.

d. Laboratory Equipment

e. Survey Equipment

2. Facilities Provided by the Construction Supervision Consultant

The Construction Supervision Consultant will provide the following:

- a. Office accommodation in Dili and all furnishings and office equipment
- b. Complete office equipment and furnitures including photocopying, computing, drafting and mapping equipment and software
- c. Transport to and from site surveys and for other local transport in Timor-Leste
- d. Travel costs to and from Timor-Leste

