



Embajada Británica  
Colombia



## **FREIGHT AND PASSENGERS TRAIN BOGOTA - ZIQAQUIRA**

### **NAME OF THE PROJECT**

CONTRACTING OF FEASIBILITY STUDY AND DESIGN FOR THE TECHNICAL, LEGAL, AND FINANCIAL, GENDER EQUALITY AND SOCIAL INCLUSION STRUCTURING OF A MIXED TRAIN (FREIGHT AND PASSENGERS) BETWEEN BOGOTA AND ZIQAQUIRA.

### **BACKGROUND**

The Bogota-Zipaquirá train is a project of National, Departmental and District interest as it entails improvements for mobility, connectivity, accessibility and competitiveness of Bogota D.C. and its neighboring municipalities of Chia, Cajica and Zipaquirá. Using the infrastructure that connects them within the region, it is possible to reduce travel time and contribute to close the social and economic gaps, as stated in the basis of the National Development Plan. Likewise, it is part of the strategic projects identified in the configuration process of the Capital Region, through its inclusion in the Bogota-Cundinamarca Common Agenda. Moreover, this project represents the future regional vision with railway transportation as part of the central mobility system (for both passengers and freight), and recognizes the growing need to improve mobility conditions in the region.

Also, this project is in line with the planning objectives proposed in the Bogota-Cundinamarca Regional Planning Working Table, set forth in the document CONPES 3256 of 2003 "Policies and strategies for an agreed management of the Bogota-Cundinamarca Region Development," which determined that "Pertinent territories for global economy are characterized by integrating the most developed urban areas and suburban and rural communities, producing regional formations able to interact in a competitive manner..."

This project intends to structure a Multi-purpose Railway System to transport passengers and freight. In that context, it is an integral part of a Mass Transportation System that will interconnect to the future projects *Regiotram de Occidente*, the Bogota surface heavy subway (Metro) and other transportation means such as: Transmilenio, SITP, Taxi system and other cycle route networks.

Another aspect to be considered is that the aforementioned project does not exclude the *Metro de Bogota D.C.* project, as these are two projects with several common technical components since both are railway systems for the mobilization of passengers and, therefore, it is necessary to consider them as one, especially if, after the priority line is studied, this will coincide with the rail ways crossing the city.

Thus, Findeter seeks to reactivate this transportation means in Colombia by financing feasibility studies on rail ways through the management of international cooperation funds.

In order to achieve the goal proposed, Findeter has applied for funds offered by the British Embassy's Prosperity Fund with the purpose of improving infrastructure of Colombian cities regarding mobility and transportation, as explained below.

The basic proposal includes a mixed train between Bogota and Zipaquirá that may allow for the local and intermunicipal integration and guarantee a comprehensive mobility service with feeder buses, local buses and intermunicipal buses, thus generating a significant relief to mobility in *Autopista Norte* (North Highway), currently collapsed during rush hours, hence becoming a multi-purpose system. This proposal makes it also



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possible to continue using the region's *Sabana Centro-Norte* and municipal transportation companies, which significantly reduces the impact on the use of the traditional system.

Other advantages of the Bogota-Zipaquira Train are given by the fact that the great majority of public transportation companies currently providing services in this route will continue to do so and, on the other hand, this transportation means will contribute to solve mobility in Bogota and neighboring municipalities from the North of the city.

Due to the above, Findeter entered into an inter-administrative agreement with the Governor's Office of Cundinamarca and the Empresa Ferrea Regional S.A.S. – EFR S.A.S., on June 12, 2019, which purpose is: "Joining efforts to "CONDUCT FEASIBILITY STUDIES FOR A BOGOTA D.C. AND ZIPAQUIRA TRAIN."

In view of the technical assistance provided by Findeter within the framework of the aforementioned inter-administrative agreement, it is necessary to contract a consultant for the conduction of feasibility studies of a mixed train between the Bogota km 5 and the Zipaquira km 53.

## SCOPE AND PURPOSES

The contract resulting from the selection process aims at conducting feasibility studies of a mixed train between Bogota and Zipaquira. The initial point of the route under this study is located in the 5th Km of the current railroad, nearby the *Centro Comercial Gran Estacion (Calle 26)* of Bogota and goes North through the *Avenida Novena* up to *La Caro* station. At this point it deviates to continue to Chia, Cajica and Zipaquira, where it ends in the 53rd Km.

It must be considered that the *Regiotram de Occidente* project has included an operational space of 32,700  $m^2$  approximately in the 5<sup>th</sup> km to receive 33 mobile units, as well as specific areas for operator's offices, system's operation control center, rolling stock and general equipment maintenance.

The feasibility study of a mixed train between Bogota and Zipaquira must include the formulation of an operational and detailed transaction model from the technical, financial, environmental, legal, land, gender equality and social responsibility points of view in the aforementioned railroad, in order to provide a safe, efficient and comfortable service to future users and commodities transported by the train.

For developing the operational model, several stages are proposed in which the CONTRACTOR shall submit a working plan, methodology and working schedule, a diagnosis including technical, financial, legal, gender equality and social responsibility, as well environmental and economic aspects of the current situation of the railroad. With this information, the CONTRACTOR shall make technical, legal, financial, environmental, land, gender equality and social responsibility structuring in order to gather, during the final stage, results from each one of them, adjusting the necessary aspects and providing comprehensive articulation and coordination. In this last stage, risks related to the project will be identified and presented, as well as precontractual and contractual documents on the detailed design, construction and operation study stages.



## PROCUREMENT PROCESS SCHEDULE

Activity	Date – Time and Venue, as applicable
Opening and submission of Terms of Reference, previous studies, annexes, technical documents and other documents related to the process.	October 15, 2019
Clarification meeting on the Terms of Reference	October 21, 2019 Time: 10:00 a.m. Venue: FINDETER Head Office <i>Calle 103 No. 19 – 20 Bogota D.C.</i> Virtual Attendance: <a href="mailto:tercerosfindeter@findeter.gov.co">tercerosfindeter@findeter.gov.co</a>
Visit (tour) to the project's road and its area of influence	October 22, 2019 Time: 10:00 a.m. <i>Av. 68 con calle 22</i>
Reception of remarks to the Terms of Reference and annexes	Up to October 23, 2019 Up to 5:00 p.m.
Sending of report on response to remarks to the terms of reference, addendum when appropriate and annexes or certificate of absence of remarks	October 30, 2019
Closing – maximum term for submission of bids, Envelope No. 1 and 2 and Opening of Envelope No. 1	November 8, 2019 Time: 10:00 a.m. Place: <i>Calle 103 #19 – 20 Bogota D.C.</i> FINDETER Correspondence
Submission of verification report on qualifying requirements and request for remedies	November 15, 2019
Opportunity to remedy and submit remarks to the report on qualifying requirements	Up to November 20, 2019 Up to 5:00 p.m.
Submission of definitive verification report on qualifying requirements	November 25, 2019
Opening of Envelope No. 2 – Economic bid and other qualification criteria of the qualified bids	November 26, 2019 Time: 10:00 a.m. Place: <i>Calle 103 #19 – 20 Bogota D.C.</i> FINDETER
Submission of evaluation report and score allocation (eligibility order)	November 29, 2019
Term to submit remarks to the evaluation report and score allocation (eligibility order)	December 4, 2019 Up to 5:00 p.m. of that day
Submission of definitive evaluation and score allocation report (eligibility order). Certificate of contract awarding or null and void declaration, as appropriate.	December 9, 2019



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## ADMINISTRATIVE REQUIREMENTS FOR SUBMISSION OF BIDS

### Envelope No. 1: Technical Bid

This will contain the supporting documents and information provided in the Terms of Reference (including, among others, documents certifying the qualification requirements of the bidder regarding legal, financial and technical aspects provided in the Terms of Reference) and must be marked as *Technical Bid Envelope*.

### Envelope No. 2: Economic Bid- Additional Specific Experience of the Bidder and Supporting Certification to the National Industry.

This will contain:

- 1) The economic bid
- 2) Information on Contracts the bidder intends to submit for qualification by physical and magnetic means.
- 3) Sworn certificate unequivocally stating the percentage of Colombian national staff to be employed in executing the contract.

## EVALUATION CRITERIA

### Legal qualifying requirements

The bidder shall comply with the legal requirements for the bid to be qualified, as well as submit all legal documents required below

- ✓ Certificate of incorporation and legal representation
- ✓ Articles of incorporation of the plural bidder (if applicable):
- ✓ General provisions to plural bidders
- ✓ Citizenship card or equivalent document
- ✓ Fiscal responsibility certificate issued by the Office of the Comptroller General of the Republic
- ✓ Criminal record certificate issued by the Office of the Attorney General
- ✓ Criminal record certificate of the legal entity's legal representative
- ✓ Authorization for temporary practice of the career in Colombia
- ✓ Bid bond
- ✓ Single Taxpayer Identification Number or equivalent
- ✓ Compliance certificate of obligations with the general systems of comprehensive social security and parafiscal contributions
- ✓ Statutory auditor certification
- ✓ Certificate of single bidder's list of the single company registration number of the Chamber of Commerce (in case it is registered)
- ✓ Anti-money laundering and counter terrorist financing
- ✓



## **Financial qualifying requirements**

### **National Bidders:**

Financial verification will be conducted considering the financial information at December 31, 2018 provided in the Financial Statements of the Bidder. For the purposes of conducting such verification, the bidder must complete and submit, along with the bid, the following documents:

- ✓ Balance Sheets and Profit and Loss Statements of the financial year ended on December 31, 2018 and Notes to the Financial Statements ended on December 31, 2018, under the terms set forth in the law in force.
- ✓ Certificate of Financial Statements at December 31, 2018 signed by the legal representative and the accountant.
- ✓ Decision by the Statutory Auditor on the financial statements at December 31, 2018 when required by the Law.
- ✓ Legible photocopies of the professional cards of the Certified Accountant and Statutory Auditor (if applicable)
- ✓ Legible photocopy of the certificate of the certified accountant who prepared the financial statements and the statutory auditor (if applicable)
- ✓ Photocopy of the disciplinary record certificate issued by the Central Board of Accountants, the statutory auditor (if applicable) and the certified accountant, valid at the date of reception of the bid.

CURRENT ASSETS, TOTAL ASSETS, CURRENT LIABILITIES, TOTAL LIABILITIES AND EQUITY items must be duly classified within the balance sheet, as to calculate the financial indicators established.

The financial information shall be submitted in pesos (Colombian legal tender) and signed by the Legal Representative and the Accountant and/or Statutory Auditor.

The Financial Statements provided shall comply with the accounting technique, especially with the guidelines provided in the Colombian Generally Accepted Accounting Principles for Financial Reporting (GAAP).

### **Foreign Bidders:**

#### **a. Foreign legal entities with registered office or branch offices located in Colombia**

In the case of foreign legal entities with registered office or branch offices located in Colombia and national legal entities with 100% foreign interest, the financial verification shall be conducted considering the financial information at December 31, 2018 provided in the consolidated Financial Statements of the parent company. For the purposes of conducting such verification, the bidder shall complete and submit, along with the bid, the following documents:

- ✓ Consolidated Financial Statements (Balance Sheet and Profit and Loss Statement) of the parent company at December 31, 2018, along with translations to Spanish language submitted according to the accounting technique, in Colombian pesos, at the representative market exchange rate at the ending date thereof, indicating the exchange rate and signed by the legal representative (whether Colombian or from the parent company), the Colombian certified accountant and/or Colombian statutory auditor who made the conversion. The CURRENT ASSETS, TOTAL ASSETS, CURRENT



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LIABILITIES, TOTAL LIABILITIES, EQUITY AND PROFITS items for the financial year must be duly classified within the Balance Sheet.

- ✓ Legible Certificate of Disciplinary Record of the Accountant and/or Statutory Auditor who had signed the Financial Statements converted to Colombian pesos issued by the Central Board of Accountants. The issuance date shall not exceed ninety days prior to the date of submission of the bid, duly updated.
- ✓ Photocopy of the Professional Card of the Certified Accountant and/or Statutory Auditor, as appropriate, who have converted the Financial Statements to Colombian pesos.

Provisions of these terms of reference regarding foreign bidders shall rule without prejudice of agreements reached in international treaties or conventions. Foreign companies with branch offices in Colombia shall be applied the regulations of the Colombian Corporations.

If any of the requirements does not apply in the country of domicile of the foreign bidder, the legal representative or attorney in Colombia shall certify it under oath.

Provisions of these terms of reference regarding foreign legal entities with registered office or branch offices in Colombia shall rule without prejudice of agreements reached in international treaties or conventions.

Language – Documents certifying the bidder's qualifying requirements originally drafted in a language other than Spanish shall be translated to Spanish and submitted in their original language along with the Spanish translation. The bidder may submit a simple translation to Spanish. If the bidder is awarded to sign the contract, this must submit the Spanish official translation of documents submitted in foreign language.

The official translation must be the same text submitted to certify the qualifying requirements.

Currency – The bidders shall provide the financial information in the legal tender of the country where this information was issued and, additionally, in Colombian pesos. The bidder and the Contracting Entity, for the purposes of certifying and verifying the qualifying requirements, shall consider the market representative rate in force at the date of issuance of the financial information. For such purpose, the bidder and the contracting entity shall consider the exchange rates certified by the Colombian Financial Superintendency.

All the financial information shall be submitted by natural persons or legal entities, as well as by each one of the members of the consortium or joint venture, either natural persons or legal entities.

The financial information shall be submitted in pesos (Colombian legal tender) and signed by the Legal Representative and Accountant and/or Statutory Auditor.

#### **b. Foreign legal entities without registered office or branch offices in Colombia**

In the case of foreign legal entities, these shall submit the financial information stated below, in conformity with the law of each country of origin and the provisions of articles 258 of the Civil Procedure Code, article 480 of the Commerce Code and the Law 455 of 1998, along with a translation to Spanish language, with values converted to the Colombian legal tender at the exchange rate at the ending date thereof, and guaranteed by the signature of the person in charge to do so, in accordance with the regulations in force in the country of origin:



- ✓ Financial Statements (Balance Sheet and Profit and Loss Statement) at December 31, 2018, along with translations to Spanish language submitted according to the accounting technique, in Colombian pesos, at the representative market exchange rate at the ending date thereof, indicating the exchange rate and signed by the legal representative (whether Colombian or from the parent company), the Colombian certified accountant and/or the Colombian statutory auditor who made the conversion. The CURRENT ASSETS, TOTAL ASSETS, CURRENT LIABILITIES, TOTAL LIABILITIES, EQUITY AND PROFITS items for the financial year must be duly classified within the Balance Sheet.
- ✓ The Financial Statement and financial documents issued abroad shall be certified by the Consulate or apostilled in conformity with the Law and the ending date shall be December 31, 2018, unless it is duly certified that the legislation of the country of origin establishes an ending date other than the date provided in these terms.
- ✓ Legible Certificate of Disciplinary Record of the Accountant and/or Statutory Auditor who had signed the Financial Statements converted to Colombian pesos and issued by the Central Board of Accountants. The issuance date shall not exceed ninety days prior to the date of submission of the bid, duly updated.
- ✓ Photocopy of the Professional Card of the Certified Accountant and/or Statutory Auditor, as appropriate, who have converted the Financial Statements to Colombian pesos.

Provisions of these terms of reference regarding foreign bidders shall rule without prejudice of agreements reached in international treaties or conventions.

Language – Documents certifying the bidder’s qualifying requirements originally drafted in a language other than Spanish shall be translated to Spanish and submitted in their original language along with the Spanish translation. The bidder may submit a simple translation to Spanish. If the bidder is awarded to sign the contract, this must submit the Spanish official translation of documents submitted in foreign language. The official translation must be the same text submitted to certify the qualifying requirements.

Currency – The bidders shall provide the financial information in the legal tender of the country where this information was issued and, additionally, in Colombian pesos. The bidder and the Contracting Entity, for the purposes of certifying and verifying the qualifying requirements, shall consider the market representative rate in force at the date of issuance of the financial information. For such purpose, the bidder and the Contracting Entity shall consider the exchange rates certified by the Colombian Financial Superintendency.

All the financial information shall be submitted by natural persons or legal entities, as well as by each one of the members of the consortium or joint venture, either natural persons or legal entities.

The financial information shall be submitted in pesos (Colombian legal tender) and signed by the Legal Representative and Accountant and/or Statutory Auditor.

Evaluation indicators shall be calculated based on the 2018 financial statements of the legal entity.

INDICATOR	VARIABLES	CONDITION
Indebtedness Level	Total Liabilities/ Total Assets	<= 65%
Liquidity	Current Assets/ Current Liabilities	>= 1.2 Times



ROE	Net Profit / Equity	$\geq 5\%$
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### FINANCIAL VERIFICATION (QUALIFYING)

This shall be made based on the review of all the documents contained in the original bid according to the Minimal Requirements of this document and the legal provisions in force.

This aspect will qualify or disqualify the bidder to continue within the process.

Indicators to be evaluated shall be calculated based on the financial statements of the legal entity for the year 2018.

INDICATOR	VARIABLES	CONDITION
Indebtedness Level	Total Liabilities/ Total Assets	$\leq 65\%$
Liquidity	Current Assets/ Current Liabilities	$\geq 1.2$ Times
ROE	Net Profit / Equity	$\geq 5\%$

**NOTE:** For this verification, FINDETER shall make calculations with two-decimal rounded figures.

### TECHNICAL QUALIFYING REQUIREMENTS

#### Specific experience of the bidder (qualifying)

- Certifications provided shall total a sum equal or above 1.00 times the sum of all the Estimated Budget – EB represented in Minimum Monthly Legal Wage in Force (SMMLV in Spanish).
- One of the certificates provided shall present a sum equal or above 0.50 times the sum of all the Estimated Budget – EB represented in SMMLV.
- All the certifications provided shall comply with typologies of the transportation means requested (Passengers and Freight).

Specific experience of the bidder in contracts fully executed shall be verified, which purpose, obligations or activities are related to the *CONDUCTION OF RAILWAY PROJECT STUDIES OR DESIGNS FOR MASS TRANSPORTATION SYSTEMS, HEAVY TRAINS, LIGHT TRAINS OR NEIGHBORING TRAINS AND FREIGHT TRANSPORTATION THROUGH RAILWAYS*, with the submission of MINIMUM ONE (1) AND MAXIMUM FIVE (5) CERTIFICATIONS in compliance with the following conditions:





## EVALUATION CRITERIA AND BID SCORE

The score allocation of bids shall be made by the COUNTERPARTY's evaluators. The best scored bid shall be selected, which will be the most favorable bid for the entity and purposes sought by the contracting process. Therefore, the maximum score of the evaluation shall be **one hundred (100) points**.

The score allocation comprises the following Four (4) qualification criteria:

QUALIFICATION FACTOR	SCORE
Technical evaluation – additional specific experience.	Up to 25 points
Additional bid evaluation - Development Design with Sustainable Transportation Focus (DOTS in Spanish) - in Stations.	Up to 15 points
Additional experience in Social Inclusion and Gender Equality	Up to 15 points
Economic Evaluation	Up to 45 points
<b>TOTAL</b>	<b>100 points</b>

## BUDGET AND PAYMENT CONDITIONS

1. Payment method
  - a. Fixed remuneration

The contract value shall be paid to THE CONTRACTOR according to the submission of reports containing the products requested, which shall be collectable once approved by the Supervision Department, as follows:

<b>STAGE I</b>	<b>WORKING PLAN, METHODOLOGY AND SCHEDULE REPORT</b>		
	1	Working Plan, Methodology and Schedule Report	7%
<b>TOTAL STAGE I</b>			7%
<b>STAGE II</b>	<b>TECHNICAL DIAGNOSIS REPORT</b>		
	2	Hydraulics, Hydrology, Undermining and Inventory of service network relocation (including oil pipeline and multi-purpose pipeline), Topography and geometrical alignment of the route and Geology and Geotechnics	5.80%
<b>STAGE II</b>	3	Transit, Transportation and Mobility, Bridges, Pontoons and Viaducts, Infrastructure, Superstructure and Platform; Stations, Buildings and Urban Insertion; Environmental Study and Land Study	5.80%
	<b>REPORT ON LEGAL, FINANCIAL AND TERRITORIAL DIAGNOSIS OF THE SOCIAL MANAGEMENT AND GENDER EQUALITY PLAN</b>		



	4	Legal, financial and Social Management and Gender Equality Diagnosis Report	6.40%
<b>TOTAL STAGE II</b>			<b>18.00%</b>
<b>STAGE III</b>	<b>TECHNICAL STRUCTURING REPORT</b>		
	5	Transit, Transportation and Mobility; Environmental Study and Property Study	7.30%
	6	Bridges, Pontoons and Viaducts and Design of service network relocation (including oil pipeline and multi-purpose pipeline)	10.20%
	7	Geology and Geotechnics and Hydraulics, Hydrology and Undermining	10.20%
	8	System Operation and Maintenance; Rolling Stock and Railway Equipment; Infrastructure, Superstructure and Platform; Stations, Buildings and Urban Insertion; Energy Redistribution System– Contact Airline (Catenary); Communication, safety, signaling and train control Systems; Courtyards and Workshops and Collection System	20.14%
	<b>REPORT ON THE LEGAL, FINANCIAL AND COMMUNICATION, SPREADING AND SOCIAL SUPPORT STRUCTURING OF THE SOCIAL MANAGEMENT AND GENDER EQUALITY PLAN</b>		
9	Legal, financial and Social Management and Gender Equality Structuring.	7.03%	
<b>TOTAL STAGE III</b>			<b>54.87%</b>
<b>STAGE IV</b>	<b>COMPREHENSIVE STRUCTURING AND FINAL ARTS REPORT</b>		
	10	Comprehensive structuring and final arts	20.13%
<b>TOTAL STAGE IV</b>			<b>20.13%</b>
<b>TOTAL CONSULTANCY PROJECT (STAGE I + STAGE II + STAGE III + STAGE IV)</b>			

**b. Success commission for the signing of all contracts established in the transaction model**

A Success Commission shall be generated for the signing of all contracts established in the Transaction Model in the amount of **FOUR BILLION PESOS (\$4,000,000,000) Colombian legal tender**, including VAT and all rates and taxes.

**2. Estimated budget**

The Budget for the selection process, plus VAT, is estimated to reach up to the sum of **THIRTEEN BILLION THREE HUNDRED EIGHTY-SIX MILLION THREE HUNDRED FIFTEEN THOUSAND PESOS, COLOMBIAN LEGAL TENDER (\$ 13,386,315,002)**, including VAT and all (direct and indirect) costs, expenses, contingencies, profits, rates and other taxes, as applicable.

The following minimum and maximum values shall be considered for the calling:

Description	Minimum Value (80% of the estimated value)	Maximum Value (100% of the estimated value)
<b>TOTAL ESTIMATED BUDGET</b>	<b>\$10,709,052,001.6</b>	<b>\$13,386,315,002</b>



The bidder shall offer a value not exceeding 100% of the budget provided for the contracting of consultancy and not lower than 80% thereof. In case of non-compliance, the bid shall be rejected.

## PROJECT DURATION AND EXPECTED DELIVERABLES

### 1. Execution term of the contract

The term provided for the general execution of the contract is **FIFTEEN (15) MONTHS** to validate the project, as of the signing of the Activity Commencement Certificate, after approval of the guarantees by the Contracting Directorate of Findeter.

### 2. Deliverables / products

Products to be delivered by the CONTRACTOR at each project development stage and their delivery term are described below:

STAGE	No.	PRODUCT	DELIVERY TERM
STAGE I	<b>WORKING PLAN, METHODOLOGY AND SCHEDULE REPORT</b>		
	1	Working Plan, Methodology and Schedule Report	Four (4) weeks after the signing of the Commencement Certificate
STAGE II	<b>TECHNICAL DIAGNOSIS REPORT</b>		
	2	Hydraulics, Hydrology, Undermining and Inventory of Service Networks Relocation (including oil pipeline and multi-purpose pipeline), Topography and geometrical alignment of the route and Geology and Geotechnics	Sixteen (16) weeks after the signing of the Commencement Certificate.
	3	Transit, Transportation, road safety and Mobility, Bridges, Pontoons and Viaducts, Infrastructure, Superstructure and Platform; Stations, Buildings and Urban Insertion; Environmental Study and Land Study	
	<b>REPORT ON LEGAL, FINANCIAL AND TERRITORIAL DIAGNOSIS OF THE SOCIAL MANAGEMENT AND GENDER EQUALITY PLAN</b>		
4	Legal, financial and Social Management and Gender Equality diagnosis	Sixteen (16) weeks after the signing of the Commencement Certificate	
STAGE III	<b>TECHNICAL STRUCTURING REPORT</b>		
	5	Transit, Transportation and Mobility; Environmental Study and Land Study	Forty-four (44) weeks after the signing of the Commencement Certificate.
	6	Bridges, Pontoons and Viaducts and service network relocation design (including oil pipeline and multi-purpose pipeline)	
7	Geology and Geotechnics, and Hydraulics, Hydrology and Undermining		



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STAGE	No.	PRODUCT	DELIVERY TERM
	8	System Operation and maintenance; Rolling Stock and Railway Equipment; Infrastructure, Superstructure and Platform; Stations, Buildings and Urban Insertion; Energy distribution system – Contact Airline (Catenary); Communication, safety, signaling and train control systems; Courtyards and Workshops and Collection System	Forty-four (44) weeks after the signing of the Commencement Certificate
	<b>REPORT ON LEGAL, FINANCIAL AND COMMUNICATION, SPREADING AND SOCIAL SUPPORT STRUCTURING OF THE SOCIAL MANAGEMENT AND GENDER EQUALITY PLAN</b>		
	9	Legal, financial and Social Management and Gender Equality structuring	Forty-four (44) weeks after the signing of the Commencement Certificate
<b>STAGE IV</b>	<b>COMPREHENSIVE STRUCTURING AND FINAL ARTS REPORT</b>		
	10	Comprehensive Structuring and Final Arts	Fifty-six (56) weeks after the signing of the Commencement Certificate