



STATE GOVERNMENT OF PARANÁ
PARANÁ SANITATION COMPANY – SANEPAR
INNOVATION AND NEW BUSINESS DIRECTORATE – DIN

PUBLIC CALL NOTICE No. 001/2025 – DIN

**SELECTION OF A STRATEGIC PARTNER FOR THE DEVELOPMENT
OF A BUSINESS OPPORTUNITY RELATED TO THE INSTALLATION OF
OPTICAL FIBERS IN SEWER COLLECTION NETWORKS**

CURITIBA

2025

PREAMBLE

The Paraná Sanitation Company (SANEPAR), founded in 1963, is one of the leading environmental sanitation companies in Brazil. The Company constantly strives to improve its processes aiming at the sustainable and innovative universalization of access to sanitation services, providing treated water, sewage collection, and treatment for millions of inhabitants in the state of Paraná, thereby contributing significantly to improvements in public health and quality of life.

SANEPAR operates in 344 municipalities in Paraná and one in Santa Catarina, serving 4.2 million active accounts with treated water, covering 100% of the urban population in these areas. With sewage systems, it serves 3.3 million active accounts, covering 80.2% of the urban population—higher than the national average of 53.2%. Its infrastructure includes collection networks, trunk collectors, interceptors, outfalls, and auxiliary systems, totaling over forty thousand kilometers of pipelines. In the area of solid waste, it operates sanitary landfills in Apucarana, Cornélio Procopio, and Cianorte, serving seven municipalities and managing 64.2 thousand tons annually.

Innovation is a central element of SANEPAR's strategy, which consistently seeks economically viable solutions that are environmentally and socially appropriate. SANEPAR adopts an open innovation approach, working in cooperation with research centers, universities, and companies both in Brazil and internationally. Currently, the company maintains various national and international partnerships that range from applied research to the large-scale implementation of new solutions.

This document aims to set forth the procedures for the selection of a STRATEGIC PARTNER that will jointly develop with SANEPAR a business opportunity related to the installation of optical fibers in sewer collection networks, by signing a TECHNICAL COOPERATION AGREEMENT.

The selection of the STRATEGIC PARTNER will be carried out through this PUBLIC CALL. Interested parties must demonstrate their technical capacity and present a detailed WORK PLAN, highlighting the main activities to be carried out in the development of the business opportunity, including a PROOF OF CONCEPT (PoC), cost structure, risks, expected benefits, competitive differentials, and regulatory aspects. The proposals to be submitted under this PUBLIC CALL should focus on technical-scientific solutions to create technological pathways and implement a data transmission network via optical fiber using the existing sanitary sewer infrastructure.

Once selected, the STRATEGIC PARTNER will then sign a TECHNICAL COOPERATION AGREEMENT for the execution of the proposed WORK PLAN, which will include the installation of optical fibers in sewer collection networks managed by SANEPAR and the preparation of a detailed business plan, covering technical, environmental, legal, regulatory, and commercial aspects. If the results from implementing the WORK PLAN prove satisfactory, SANEPAR and the selected STRATEGIC PARTNER may proceed with the procedures to formalize a business arrangement for shared infrastructure services, while SANEPAR reserves the right to reassess the continuation of such actions at any time or even condition it on the assessment of other institutions with which it has partnerships.

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CHAPTER I – PRELIMINARY PROVISIONS

1. LEGAL SUPPORT

- 1.1. This PUBLIC CALL shall be governed by this NOTICE with all of its ANNEXES and any documents referred to herein, by Federal Law No. 13,019 of July 31, 2014, by SANEPAR's Internal Regulations on Bidding, Contracts, and Agreements ("RILC"), approved by SANEPAR's Board of Directors on January 26, 2023, effective as of March 1, 2023, by Resolution No. 758/2024 – CA, approved by SANEPAR's Board of Directors on August 8, 2024, effective as of August 19, 2024, by SANEPAR's Code of Conduct and Integrity, by the Integrity Program for Third Parties and Code of Conduct and Integrity for Third Parties, by State Law No. 20,266 of July 21, 2020, by Complementary Law No. 123 of December 14, 2006, by Federal Law No. 13,303 of June 30, 2016, by Federal Law No. 8,429 of June 2, 1992, by the General Data Protection Law, by the Anti-Corruption Law, by Federal Law No. 13,460 of June 26, 2017, and by the Federal Constitution, without prejudice to other applicable legal provisions, and in compliance with the determinations of this NOTICE and its ANNEXES, as well as other relevant state and federal legislation and their possible amendments.

2. DEFINITIONS

- 2.1. For this PUBLIC CALL, the following definitions shall be used:

PUBLIC CALL	Administrative procedure, subject of this NOTICE, aiming to select a STRATEGIC PARTNER for the development of a business opportunity.
NOTICE	The present calling instrument for the PUBLIC CALL and its ANNEXES, regulating the terms and conditions for selection and for the development of the business opportunity.
ANNEX	Each of the documents attached to this NOTICE, as applicable, identified sequentially by letters or Roman numerals, which are integral parts of this NOTICE.
PROOF OF CONCEPT (PoC)	Set of activities and tests aimed at demonstrating the feasibility of using sewer collection networks to install and operate fiber optic networks, according to criteria established in this NOTICE.
PROPONENT	Any legal entity, whether Brazilian or foreign, as well as investment funds or pension entities, individually or in CONSORTIUM, participating in this PUBLIC CALL. For the purposes of technical capacity proof, legal entities within the same economic group shall be considered.
TECHNICAL COOPERATION AGREEMENT	Legal instrument signed between SANEPAR and the STRATEGIC PARTNER, aiming to formalize mutual collaboration for the development of a business opportunity related to the implementation of infrastructure for optical fiber networks through sewer collection networks.
WORK PLAN	Document prepared by the PROPONENT detailing the actions to be carried out for the execution of the TECHNICAL COOPERATION AGREEMENT.
STRATEGIC PARTNER	Any legal entity, whether Brazilian or foreign, as well as investment funds or pension entities, individually or in consortium, that has been selected in the

	SECOND STAGE of this NOTICE and has signed a TECHNICAL COOPERATION AGREEMENT with SANEPAR.
CONSORTIUM	Association of legal entities, whether Brazilian or foreign, mixed-capital companies, public companies, pension entities, or investment funds, aiming to participate in this PUBLIC CALL. For the purposes of technical capacity proof, the economic group to which it belongs shall be considered.
OBJECT	The subject matter of the PUBLIC CALL, as set out in the NOTICE..
FIRST STAGE	Stage comprising document analysis and proof of technical capacity, qualifying those PROPONENTS that meet the requirements of the NOTICE for the SECOND STAGE.
SECOND STAGE	Stage comprising the evaluation of the WORK PLAN, resulting in the selection of the STRATEGIC PARTNER.
THIRD STAGE	Stage comprising the signing of the legal instrument related to the TECHNICAL COOPERATION AGREEMENT and the execution of the respective WORK PLAN.

3. ANNEXES TO THIS PUBLIC CALL

3.1. The documents that form an inseparable part of this NOTICE are as follows:

- a) ANNEX I – Model of Technical Cooperation Agreement
- b) ANNEX II – Model of the Work Plan
- c) ANNEX III – Model of Opportunity Registration
- d) ANNEX IV – Summarized Business Model Canvas
- e) ANNEX V – Model of Declaration A
- f) ANNEX VI – Model of Certificate
- g) ANNEX VII – Model of Anti-Nepotism Declaration
- h) ANNEX VIII – Model of Confidentiality Agreement
- i) ANNEX IX – Technical Conditions for Implementation of the PoC

4. ACRONYMS

4.1. The following acronyms may be used:

PoC – Proof of Concept

ANATEL – National Telecommunications Agency

CNPJ – National Registry of Legal Entities (Cadastro Nacional de Pessoa Jurídica)

CPF – Individual Taxpayer Registry (Cadastro de Pessoas Físicas)

CRF – FGTS (Severance Fund) Regularity Certificate

CVM – Securities and Exchange Commission (Comissão de Valores Mobiliários)

FGTS – Severance Indemnity Fund for Employees (Fundo de Garantia do Tempo de Serviço)

INSS – National Social Security Institute (Instituto Nacional do Seguro Social)

ISP – Internet Service Provider

LGPD – General Data Protection Law (Lei Geral de Proteção de Dados)

MTTR – Mean Time to Repair

OTDR – Optical Time Domain Reflectometer

RILC – SANEPAR's Internal Regulations on Bidding, Contracts, and Agreements

RG – General Register - National Identity Card

ROI – Return on Investment

SNIS – National Sanitation Information System (Sistema Nacional de Informações Sobre Saneamento)

SPE – Special Purpose Entity

5. OBJECT

- 5.1. The OBJECT of this NOTICE is to select a STRATEGIC PARTNER to formalize a TECHNICAL COOPERATION AGREEMENT with SANEPAR, aiming to carry out a WORK PLAN focused on developing a business opportunity related to the installation of optical fibers in sewer collection networks.

6. STRATEGIC OBJECTIVES

- 6.1. The intrinsic strategic objectives in developing this opportunity are:
- I. Determine the potential and technical and regulatory feasibility of installing optical fibers in existing sewer collection networks and in those to be installed in urban centers of the municipalities served by SANEPAR.
 - II. Determine the economic and financial feasibility of business models for providing telephony and internet services using sewer collection networks.
 - III. Identify, analyze, and quantify risks and uncertainties related to the studied business models, considering at least the following aspects: technical, regulatory, financial, market, and commercial arrangements.
 - IV. Identify the necessary technical, commercial, and legal arrangements required to create a corporate partnership to explore fiber optic services in sewer collection networks, involving mixed-capital and private partners.

7. GENERAL CONDITIONS FOR PARTICIPATION

- 7.1. Any legal entity, whether Brazilian or foreign, as well as investment funds and pension entities, individually or in CONSORTIUM, that presents a project capable of offering an executable solution and demonstrates viability from technical, economic, regulatory, and market perspectives may participate in this NOTICE.

- 7.2. The PROPONENT must also meet the following requirements simultaneously:
- a) Have an annual turnover equal to or greater than BRL 100,000,000.00 (one hundred million Brazilian Reais), proven by the 2023 Financial Statements;
 - b) Provide a negative certificate of civil insolvency, issued by the distributor of the legal entity's headquarters, dated no more than 90 (ninety) days prior to its submission;
 - c) Publish or provide the entity's financial statements for the last three completed fiscal years, accompanied by a report highlighting any specific accounting items within that three-year period. If the PROPONENT is not required to publish, a certified copy of the balance sheet signed by the legal representative and the accountant registered with the relevant professional body, including the registry number, must be submitted. The documents and statements required in this item must be delivered together with the other documents required in this NOTICE, within the deadlines set forth herein;
 - d) Present an average annual EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortization) of at least BRL 50,000,000.00 (fifty million Brazilian Reais), proven by the 2024, 2023, and 2022 Financial Statements;
 - a. The EBITDA calculation must be based on the figures presented in the Financial Statements;
 - b. The annual average is a simple average of the EBITDA for 2024, EBITDA for 2023, and EBITDA for 2022;
 - c. For calculation purposes, EBITDA is the net income for the period, plus income taxes, expenses, and net financial revenues, and expenses for depreciation, amortization, and depletion, as per CVM Instruction No. 156 of June 23, 2022.
 - e) Have an average annual CAPEX (capital expenditure) of at least BRL 400,000,000.00 (four hundred million Brazilian Reais), proven by the 2024, 2023, and 2022 Financial Statements;
 - a. The CAPEX calculation must be based on the figures presented in the Financial Statements;
 - b. The annual average is a simple average of CAPEX for 2024, CAPEX for 2023, and CAPEX for 2022;
 - c. For the purposes of this calculation, CAPEX is the sum of tangible and intangible asset acquisitions for noncurrent assets.
 - f) Present a commitment statement indicating the availability of resources to invest in executing a Proof of Concept (PoC), in an amount not less than BRL 2,000,000.00 (two million Brazilian Reais) and not more than BRL 10,000,000.00 (ten million Brazilian Reais).
- 7.3. SANEPAR will not contribute financial resources for implementing the selected WORK PLAN. All necessary funding must be provided by the chosen STRATEGIC PARTNER.
- 7.4. Each PROPONENT must provide a proposal guarantee in the amount of the financial resources they have committed for the PoC, as indicated in the statement of commitment.
- 7.5. The proposal guarantee may be provided in any of the following forms:
- I. Deposit in national currency;
 - II. Surety bond, under the terms of the item; or
 - III. Bank guarantee.

- 7.6. PROPONENTS that have, within their corporate structure, management, or among their shareholders, individuals employed by SANEPAR, or who were SANEPAR employees up to 180 (one hundred and eighty) days before the date of publication of this PUBLIC CALL, or who have within their corporate structure, management, or among their shareholders, professionals who are blood relatives or kin, up to the third degree, of SANEPAR directors, SANEPAR employees whose duties involve participation in the area responsible for this selection process, or authorities of the Government of Paraná, are not allowed to participate.
- 7.7. A PROPONENT who has in its prior relationships with SANEPAR incurred in at least one of the following situations is also not allowed to participate:
- a) Failure to account for funds;
 - b) Unjustified failure to meet the objectives of any agreement(s) or contract(s) signed with SANEPAR;
 - c) Misuse of funds transferred;
 - d) Causing damage to any of the partner institutions; or
 - e) Engaging in other illegal acts when executing agreements or contracts, such as fraudulent, corrupt, collusive, coercive, or obstructive practices, among others subject to termination, with consequences set forth in Law No. 12,846/2013.
- 7.8. The PROPONENT is solely responsible for any and all information provided throughout this selection process, including, but not limited to, physical or electronic forms, message exchanges, and attached files. At any time, an immediate and irrevocable disqualification may be determined if the information is found to be inadequate or if its truthfulness cannot be verified.
- 7.9. PROPONENTS that do not meet the eligibility requirements for participation in the PUBLIC CALL will be automatically disqualified and, therefore, will not be assessed with regard to the other parameters described in this NOTICE.
- 7.10. The organization of the PUBLIC CALL declares, from the outset, that all information and knowledge (such as know-how, procedures, routines, and others), as well as all industrial property rights (patents, utility models, trademarks, industrial designs, copyrights, computer programs, among others) that predate the signing of the TECHNICAL COOPERATION AGREEMENT, and that are revealed/used solely to support the activities developed, will remain under the ownership of the revealing/holder party.
- 7.11. Any technological solution resulting from the WORK PLAN that is part of the TECHNICAL COOPERATION AGREEMENT, which is intended to be signed with the STRATEGIC PARTNER selected under this PUBLIC CALL, and that may be subject to intellectual property, as per relevant legislation, will belong jointly to SANEPAR and the selected STRATEGIC PARTNER, and must be the subject of a supplementary document establishing the rights and obligations regarding the registration, maintenance, and commercial exploitation of such intellectual property.
- 7.12. Partnership will only entail technology absorption and transfer between SANEPAR and the selected STRATEGIC PARTNER if this aspect is expressly and previously agreed upon in a specific instrument signed between the parties.
- 7.13. All knowledge, information, results, and practical applications of the TECHNICAL COOPERATION AGREEMENT, generated in its proposition, evaluation, and execution, will be treated as confidential by the parties involved during and after the validity of the TECHNICAL COOPERATION AGREEMENT.

- 7.14. In the event of the circumstances mentioned above, specific separate documents will be prepared and submitted to the parties involved.

8. SUBMISSION OF THE DOCUMENTATION FOR PARTICIPATION IN THE PUBLIC CALL

- 8.1. The period for submitting the documentation to participate in this **PUBLIC CALL** shall be from April 24, 2025 until June 08, 2025 **and from June 08, 2025 until July 22, 2025 and from July 23, 2025 until September 02, 2025 and from September 03, 2025 until November 01, 2025 and from November 02, 2025 until February 06, 2026**. Submission must be made exclusively via the website <https://site.sanepar.com.br/fornecedores/chamamento-fibra-optica> <https://www.sanepar.com.br/edital/novos-negocios/fibra-optica> no later than 5:00 p.m. (Brasília time). The **PROPONENT** is solely responsible for sending the documentation by the deadline.
- 8.2. The statements and other proposal elements to be submitted by the **PROPONENT** must comply with the models provided in the **ANNEXES** of this **NOTICE** and must accompany the proposal as an integral part of the selection process, on penalty of disqualification.
- 8.3. The aforementioned statements must be electronically signed with a digital certificate by the **PROPONENT's** legal representative, certifying awareness and agreement with the terms of this **NOTICE**, as well as the collection and use of the provided data for the purposes stated in this **PUBLIC CALL**.
- 8.4. The results regarding approved registrations will be published by **March 06, 2026**, on the website <https://site.sanepar.com.br/fornecedores/chamamento-fibra-optica> <https://www.sanepar.com.br/edital/novos-negocios/fibra-optica>.

9. EVALUATION COMMITTEE

- 9.1. The proposals submitted under this PUBLIC CALL will be evaluated by a committee composed of SANEPAR representatives and Ad hoc consultants.

10. STAGES OF THE NOTICE

- 10.1. The process of selecting the STRATEGIC PARTNER as set forth in this NOTICE will consist of 3 (three) stages:
- I. FIRST STAGE: Document analysis and proof of technical capacity;
 - II. SECOND STAGE: Assessment of the WORK PLAN;
 - III. THIRD STAGE: Formalization of the TECHNICAL COOPERATION AGREEMENT (ANNEX I) and subsequent execution of the WORK PLAN submitted (ANNEX II).

CHAPTER II – FIRST STAGE

11. DOCUMENT ANALYSIS

- 11.1. A PROPONENT will be deemed qualified for the SECOND STAGE if compliant with the documentation requirements set forth in section 11.
- 11.2. The PROPONENT must submit the documents required in item 11.3, exclusively via the following website: www.sanepar.com.br.

11.3. The following documents must be included in the submission:

- a) An online application form, available at www.sanepar.com.br.
- b) WORK PLAN (ANNEX II);
- c) Copy of the updated Articles of Incorporation and the legal entity's founding documents;
- d) An updated list of the entity's current directors, including their Individual Taxpayer Registry – CPF numbers;
- e) Proof of registration of the entity in the National Registry of Legal Entities – CNPJ;
- f) Certificate of good standing with:
 - a. INSS, by submitting a negative debt certificate regarding federal taxes and debts to the Federal Treasury;
 - b. FGTS, by submitting the FGTS (CRF) Regularity Certificate;
 - c. Proof of good standing with the State Treasury of Paraná;
- g) Certificate confirming the PROPONENT's experience in activities relevant to the business opportunity to be executed with SANEPAR (ANNEX VI);
- h) Proof of good standing issued by the Court of Accounts of Paraná and by the Court of Accounts of the state of the contracting party's headquarters;
- i) Anti-Nepotism Declaration (ANNEX VII);
- j) Proof that the individual who will sign the agreement has the power to do so for that specific purpose (e.g., Minutes of Director Appointment, Designation, Delegation, Power of Attorney);
- k) Confidentiality Agreement (ANNEX VIII);
- l) Documents required to prove technical capacity, as per item 11.4.

11.4. To prove technical capacity:

- a) Present contracts and/or technical certificates and/or reports indicating that the PROPONENT owns and operates at least **one** of the following minimum amounts of fiber optic cable networks:
 - I. 500 km of fiber optic cable networks owned and operated within the State of Paraná;
 - II. 1,000 km of fiber optic cable networks owned and operated in Brazil;
 - III. 2,000 km of fiber optic cable networks owned and operated in all the countries in which it operates.
- b) Present an operating license and/or technical certificates proving the PROPONENT has owned and operated fiber optic cable networks exceeding 500 km for more than 3 years:
 - a. The starting point of the 3-year period is counted from the date the PROPONENT began operating a network of at least 500 km of fiber optic cable. Operating networks smaller than 500 km will not be considered for the partial operation requirement.
- c) Provide a telecommunications license issued by ANATEL, confirming that the PROPONENT is licensed to operate fiber optic networks in Brazil and is authorized to offer wholesale network services.

- d) Present contracts and/or technical certificates and/or reports indicating that the PROPONENT has provided services to at least 3 licensed telecommunications operators, having provided such service for at least 2 years to at least one of these operators, containing a clear description of the following information:
 - a. Purpose;
 - b. Characteristics of the projects, activities, and services certified;
 - c. Total capacity of the project;
 - d. Start and completion dates of the activities and services executed.
 - e) Present contracts and/or technical or expert reports demonstrating that the PROPONENT operates in the field of fiber optic telecommunications infrastructure implementation, containing a clear description of the following information:
 - a. Purpose;
 - b. Characteristics of the projects, activities, and services certified;
 - c. Total capacity of the project;
 - d. Nominal and actual capacity values of the projects;
 - e. Start and completion dates, when applicable, of the activities and services.
- 11.5. In the case of technical certificates and reports, they must be accompanied by an updated statement containing:
- a) The name of the issuing entity;
 - b) Identification;
 - c) Contact phone number;
 - d) Email address of the signatory.
- 11.6. The technical certificates and reports may be supplemented by the presentation of contracts and other relevant reports.
- 11.7. The name and identification of the issuing representative of the certificates must be submitted for any potential due diligence by the Evaluation Committee of this NOTICE, signed electronically with a digital certificate, containing updated contact information such as phone numbers, address, and email.
- 11.8. Non-compliance of certificates or the non-confirmation of their content, after the Evaluation Committee's investigations, will result in the PROPONENT's disqualification, without prejudice to other applicable penalties for providing false information.
- 11.9. In the event of corporate changes such as mergers, acquisitions, or spin-offs of companies, only the certificates and/or contracts that unequivocally and documentally establish the definitive transfer of technical assets will be considered.
- 11.10. Documents submitted/presented to SANEPAR during the PUBLIC CALL must always be in electronic form, signed with a digital certificate.
- 11.11. Regardless of the date on which certificates or other supporting documents were issued, the facts stated therein that serve as evidence of the PROPONENT's experience must have taken place by the date proposals are submitted in response to this NOTICE.

CHAPTER III – SECOND STAGE

12. WORK PLAN

- 12.1. The PROPONENT must submit a WORK PLAN in accordance with ANNEX II of this NOTICE.
- 12.2. The suggested schedule for developing the WORK PLAN should indicate the estimated duration and the budget percentage allocated to each stage of the PoC execution.
- 12.3. The minimum period for the PoC is 6 months.
- 12.4. At its discretion, the PROPONENT may include additional information it deems relevant to the project in the WORK PLAN.

13. EVALUATION OF THE WORK PLANS – SECOND STAGE

- 13.1. WORK PLANS will be evaluated based on five categories of criteria and parameters, as described in Tables 1 to 6:

Table 1: Overview of criteria and composition of the score for the SECOND STAGE

Category	Scoring Range	Evaluation Scope	Criterion	Score
A. Technical Solution	0 - 5	PoC & Scale (Potential)	A.1 A.1 Technical Feasibility	0 - 5
			A.2 Technological Innovation	0 - 5
			A.3 Integration and Compatibility	0 - 5
B. Regulatory Aspects	0 - 5	PoC & Scale (Potential)	B.1 Regulatory Compliance (Sanitation & Telecom)	0 - 5
			B.2 Safety and Environmental Compliance	0 - 5
C. Market	0 - 5	Scale (Potential)	C.1 Market Feasibility Analysis	0 - 5
			C.2 Implementation Strategy	0 - 5
D. Financial Viability & Risks	0 - 5	PoC & Scale (Potential)	D.1 Cost and ROI Analysis	0 - 5
			D.2 Business Model and Revenue	0 - 5
			D.3 Risk and Uncertainty Analysis	0 - 5
E. Technical Team	0 - 5	PoC	E.1 Experience	0 - 5
			E.2 Technical Skills and Competencies	0 - 5

Category	Scoring Range	Evaluation Scope	Criterion	Score
COMPOSITION OF THE CATEGORY SCORES		Score for Category A	(A.1 Score x 0.5) + (A.2 Score x 0.3) + (A.3 Score x 0.2)	
		Score for Category B	(B.1 Score x 0.5) + (B.2 Score x 0.5)	
		Score for Category C	(C.1 Score x 0.5) + (C.2 Score x 0.5)	
		Score for Category D	(D.1 Score x 0.4) + (D.2 Score x 0.4) + (D.3 Score x 0.2)	
		Score for Category E	(E.1 Score x 0.5) + (E.2 Score x 0.5)	

Table 2: Technical Solution – Criteria and evaluation parameters

Category	Criterion	Evaluation Parameter	Score
A. Technical Solution	A.1 Technical Feasibility	The proposal lacks details on the technical feasibility of installing optical fiber in sewer networks, or the proposed methods are highly speculative and unsupported by evidence.	0
		The proposal provides some basic feasibility elements but lacks specific details or only superficially addresses technical challenges.	1 - 2
		The proposal demonstrates a solid understanding of the technical challenges involved and presents suitable, feasible solutions for implementing optical fiber in sewer networks.	3 - 4
		The proposal is detailed and comprehensive, demonstrating an innovative approach with high feasibility potential for implementing the technology both in the PoC and in scaling the results.	5
	A.2 Technological Innovation	The proposal presents no significant innovation and seems reliant on conventional approaches or widely used technologies.	0
		The proposal includes some innovative ideas but does not fully develop them, or they do not clearly offer an advantage over traditional approaches.	1 - 2
		The proposal presents innovative solutions and shows a clear understanding of how these solutions can enhance the implementation of optical fiber in sewer networks.	3 - 4
		The proposal is highly innovative, presenting cutting-edge approaches or technologies with the potential to significantly transform sewer network infrastructure applicable to both the PoC and scaled implementation.	5
	A.3 Integration and Compatibility	The proposal does not address integration or compatibility issues with existing sewer network infrastructure.	0
		The proposal mentions the need for integration but provides few details on how it will be achieved or does not fully consider compatibility with existing systems.	1 - 2

Category	Criterion	Evaluation Parameter	Score
		The proposal includes detailed plans for integrating fiber optic technology with existing sewer network infrastructure and shows a solid understanding of compatibility challenges.	3 - 4
		The proposal provides a comprehensive, well-founded approach to ensuring seamless integration and effective compatibility of fiber optic technology with sewer networks, taking into account both the PoC and scaled implementation.	5

Table 3: Regulatory Aspects – Criteria and evaluation parameters

Category	Criterion	Evaluation Parameter	Score
B. Regulatory Aspects	B.1 Regulatory Compliance (Sanitation & Telecom)	The proposal does not address regulatory issues or shows no awareness of the relevant regulations for implementing the technology in sewer networks.	0
		The proposal mentions the need for regulatory compliance but provides few details on how regulations will be met or does not clearly identify specific regulatory requirements.	1 - 2
		The proposal includes a clear plan to ensure compliance with relevant regulations and demonstrates a solid understanding of applicable regulatory requirements.	3 - 4
		The proposal presents a comprehensive analysis of the pertinent regulations and provides a detailed plan to obtain the necessary approvals and authorizations from regulatory bodies, both for the PoC and for scaling results.	5
	B.2 Safety and Environmental Compliance	The proposal does not address safety and environmental compliance issues related to installing fiber optics in sewer networks.	0
		The proposal mentions the importance of safety and environmental compliance but provides few details about specific measures to mitigate risks or protect the environment.	1 - 2

Category	Criterion	Evaluation Parameter	Score
		The proposal includes solid plans to ensure worker and public safety as well as measures to minimize the environmental impact of the technology's implementation.	3 - 4
		The proposal demonstrates a commitment to safety and environmental compliance, including comprehensive measures to safeguard public health and the environment, considering both the PoC environment and the scaled implementation of the results.	5

Table 4: Market – Criteria and evaluation parameters

Category	Criterion	Evaluation Parameter	Score
C. Market	C.1 Market Feasibility Analysis	The proposal does not include a market analysis or does not demonstrate understanding of the market conditions for fiber optic technology in sewer networks.	0
		The proposal offers only a superficial market analysis, providing insufficient information to properly assess the commercial viability of the technology.	1 - 2
		The proposal includes a solid market analysis, identifying opportunities and potential demand for fiber optic technology in sewer networks.	3 - 4
		The proposal provides a detailed, well-founded market analysis with significant insights on market size, competition, trends, and customer needs.	5
	C.2 Implementation Strategy	The proposal does not include a clear strategy for introducing the technology into the market or does not address practical issues related to the implementation of the technology in sewer networks.	0
		The proposal provides a basic implementation strategy but lacks detailed specifics or a clear roadmap for how the technology will enter the market.	1 - 2
		The proposal presents a realistic, well-developed strategy for introducing the technology to the market, including identification of target segments, distribution channels, and marketing plans.	3 - 4

Category	Criterion	Evaluation Parameter	Score
		The proposal offers a highly effective implementation strategy, with detailed plans to maximize the technology's commercial potential and secure a significant share of the target market.	5

Table 5: Financial Viability & Risks – Criteria and evaluation parameters

Category	Criterion	Evaluation Parameter	Score
D. Financial Viability & Risks	D.1 Cost and ROI Analysis	The proposal does not include how the cost or return on investment (ROI) analysis will be conducted, or it does not provide a realistic assessment of how the costs associated with implementing the technology will be determined.	0
		The proposal presents a basic approach to cost and ROI but lacks specific details or does not adequately account for potential additional costs or risks that should be factored in during PoC development.	1 - 2
		The proposal includes a detailed approach of how costs associated with implementing the technology will be determined, along with a realistic estimate of the expected ROI and the payback period of the investment within the proposed project scope.	3 - 4
		The proposal offers a comprehensive and accurate demonstration of how to perform the financial analysis, showing a deep understanding of the costs and benefits of the technology and providing valuable insights for potential investors or interested parties, both for the PoC environment and for scaling the results.	5
	D.2 Business Model & Revenue	The proposal does not include a clear business model or fails to address how the technology will be monetized and generate revenue.	0
		The proposal presents a basic business model but provides insufficient information on potential revenue sources or fails to clearly demonstrate how the technology will generate profit.	1 - 2
		The proposal includes a solid, well-defined business model, clearly describing how the technology will be monetized and identifying potential revenue streams.	3 - 4
		The proposal presents a highly effective business model, indicating a deep understanding of revenue opportunities and providing a clear strategy to maximize the technology's profitability.	5
	D.3 Risk and Uncertainty Analysis	The proposal does not adequately identify potential risks and uncertainties associated with the proposed business model for using optical fiber in sewer networks.	0
		The proposal identifies some risks and uncertainties, but does not conduct a comprehensive analysis or does not consider all possible sources of uncertainty.	1 - 2

Category	Criterion	Evaluation Parameter	Score
		The proposal identifies a significant array of relevant risks and uncertainties for the proposed business model and offers a detailed analysis of each.	3 - 4
		The proposal provides a thorough, detailed analysis of risks and uncertainties, including a complete identification and a quantitative assessment whenever possible, considering both the PoC environment and extrapolation of results within the business model context.	5

Table 6: Technical Team – Criteria and evaluation parameters

Category	Criterion	Evaluation Parameter	Score
E. Technical Team	E.1 Experience	The technical team has no relevant experience for the proposed project.	0
		The technical team has some related experience, but the specific experiences required for the project are limited or nonexistent.	1 - 2
		The technical team has robust, suitable experience for the proposed project, showing a history of success in similar projects.	3 - 4
		The technical team has extensive experience and recognition in the field.	5
	E.2 Technical Skills and Competencies	The technical team does not possess the necessary technical skills to effectively carry out the project.	0
		The technical team has some relevant technical skills, but there are significant gaps in key areas of the project.	1 - 2
		The technical team demonstrates solid technical skills and competencies in key areas relevant to the proposed project.	3 - 4
		The technical team has a comprehensive set of technical skills and competencies, covering all the areas needed for the project, including advanced specializations.	5

- 13.2. Each criterion will receive a score from 0 (zero) to 5 (five), with one decimal place.
- 13.3. The evaluation will be carried out by an internal committee made up of representatives with expertise in document analysis, who have no conflicts of interest.
- 13.4. The Average Score from the evaluators will consider one decimal place. Any proposal receiving a score below 3.0 (three) in any of the individual categories or a total Evaluation Score in the SECOND STAGE below 17.5 (seventeen point five) will be disqualified.
- 13.5. In the event of a tie between companies, the following tie-breaking criteria will be used in this order:
- a) Higher scores in the categories:
 - a. A (Technical Solution);
 - b. D (Financial Viability & Risks);
 - c. E (Technical Team);
 - d. C (Market);
 - e. B (Regulatory Aspects).
 - b) If the tie remains, the earliest date of submission of the proposal will be considered.
- 13.6. The results, showing the list of the company eligible to formalize the **TECHNICAL COOPERATION AGREEMENT**, will be published on the website www.sanepar.com.br, according to the Timeline in this **PUBLIC CALL**.
- 13.7. The **PROPONENT** may file an appeal within 2 (two) business days of the disclosure of the Final Result of the SECOND STAGE.
- 13.8. Approval of the **PROPONENT** does not create a right or an expectation of a right to formalize the **TECHNICAL COOPERATION AGREEMENT**. SANEPAR is not responsible for any obligations assumed by the **PROPONENT** due to being approved in the stages set forth in this **PUBLIC CALL**.

CHAPTER IV – THIRD STAGE

14. FORMALIZATION OF THE LEGAL INSTRUMENT – THIRD STAGE

- 14.1. This stage consists of signing the TECHNICAL COOPERATION AGREEMENT (ANNEX I) and its respective WORK PLAN (ANNEX II).
- 14.2. The PROPONENT with the best classification in the selection process will be qualified to sign a TECHNICAL COOPERATION AGREEMENT with SANEPAR and the corresponding WORK PLAN.
- 14.3. SANEPAR may request additional documentation and information if deemed necessary.
- 14.4. After the selection, those responsible for the chosen proposal will be informed of the procedures required to formalize the TECHNICAL COOPERATION AGREEMENT.

- 14.5. It is the PROPONENT's responsibility to verify data and anticipate potential barriers and challenges inherent to project development, which may not be used as grounds for altering the terms of the TECHNICAL COOPERATION AGREEMENT and its respective WORK PLANS that may be established.
- 14.6. The TECHNICAL COOPERATION AGREEMENT will be valid for 12 (twelve) months, and may be extended for an equal period upon mutual agreement between the parties.
- 14.7. The TECHNICAL COOPERATION AGREEMENT may be unilaterally terminated by SANEPAR at any time in cases where there is evidence of insufficient technical knowledge, failure to comply with the WORK PLAN, or failure to meet the established schedule, or any other circumstances indicating deficiencies that jeopardize the proper and correct progress of the activities set forth in the TECHNICAL COOPERATION AGREEMENT.
- 14.8. The PROPONENT selected to formalize the TECHNICAL COOPERATION AGREEMENT must make the necessary adjustments to meet the requirements of the WORK PLAN, based on the model attached to this NOTICE, adapting the execution stages and schedule according to the Technological Pathway proposed by the selected STRATEGIC PARTNER.
- 14.9. This PUBLIC CALL is limited to proposing and evaluating technological pathways, evaluating the economic and financial feasibility, and designing business plans for the provision of services related to the implementation of optical fibers in sewer networks, without any obligation to form a commercial partnership with the selected company.

15. PoC EVALUATION CRITERIA DURING THE EXECUTION OF THE TECHNICAL COOPERATION AGREEMENT

15.1. Installation

- a) All necessary licenses must be obtained;
- b) all applicable health and safety requirements must be met;
- c) The PoC area of coverage for installation must be demarcated in a dedicated telecommunications compartment;
- d) Fiber drop to the facilities shall be the responsibility of the telecommunications company that connected the subscribers;
- e) The fiber drop to the facilities must be made by the telecommunications company that connected the subscribers, and the integration must be tested;
- f) The schedule set forth in the WORK PLAN and the TECHNICAL COOPERATION AGREEMENT must be followed;
- g) The PoC had minimal interruption and no flow diversion to install the fiber.

15.2. Technology:

- a) The installed optical fiber must have at least 48 cores;
- b) The optical fiber must be loose-tube, dry core fiber with a moisture barrier and steel wire armor;
- c) The fiber must occupy at most 10% of the sewer pipe diameter (for example, 15 mm for 150 mm sewer pipes);
- d) If the optical fiber is submersible, it must have a submerged mass of 136 g/m;
- e) The average reduction in flow capacity must not exceed 5%;
- f) Fiber splicing must be accessible in a separate manhole or handhole outside the sewer;
- g) The optical fiber must have the capability to be lit (activated for data transmission);

- h) The fiber optic network must be tested using an OTDR (Optical Time Domain Reflectometer) and comply with industry standards and design specifications;
- i) OTDR testing must be carried out throughout the PoC period and should not show significant deviations from the planned link budget or from the acceptable measurements for installation and losses, according to the guidelines of The Fiber Optic Association, Inc. (available at: <https://www.thefoa.org/tech/loss-est.htm>);
- j) Losses associated with splices and connectors must not exceed manufacturers' specifications;
- k) Evaluate a system for sewer detection and sewer flow monitoring using fiber (optional requirement);
- l) SANEPAR reserves the right to consider multiple technologies for evaluation.

15.3. Operation and Maintenance:

- a) The maximum number of proactive maintenance interventions shall be limited to once per month;
- b) Simulations and tasks must be performed without damaging the optical fiber or the sewer network, including dislodging debris, moving debris to the access point (manhole), removing debris from the pipe, and maintenance with pressurized flushing;
- c) Fiber uptime must be **99.999%** in the final third of the PoC period. Hence, if the total time is six months, this requirement must be met at least in the last two months;
- d) The average response time to any fiber optic network outage must be 15 minutes;
- e) The average recovery time must be less than one hour;
- f) The **Mean Time To Repair (MTTR)** of the optical fiber must be up to 4 hours;
- g) Successful fiber removals must be carried out for at least each technology and type of sewer pipe;
- h) The removal must be at least 300 meters of fiber per technology, size, and type. Interruptions must be minimal, without any flow diversion for the removal of the optical fiber;
- i) SANEPAR may require the complete removal of the fiber from the sewer upon the conclusion of the PoC period.

16. DELIVERABLES TO BE PRESENTED AT THE END OF THE WORK PLAN EXECUTION

- 16.1. Technical reports with interim results throughout the validity of the TECHNICAL COOPERATION AGREEMENT;
- 16.2. A final report with the conclusions of the studies, the PoC evaluation criteria, modeling for the fiber optic installation using the sewer network, as well as a review of the technical, environmental, legal, regulatory, and commercial aspects involved;
- 16.3. A detailed Business Plan with the Opportunity Registration (ANNEX III), Canvas Business Model (ANNEX IV), Draft Shareholders' Agreement, and a Timeline for the formalization of a potential business partnership for exploring the developed business opportunity between SANEPAR and the selected STRATEGIC PARTNER;
- 16.4. The Business Plan must demonstrate economic-financial or strategic benefit to SANEPAR, including but not limited to:

- a) Revenue growth;
 - b) Cost reduction;
 - c) Corporate sustainability;
 - d) Environmental sustainability;
 - e) Enhancement of innovation ecosystems;
 - f) Receipt of dividends.
- 16.5. Regarding the draft shareholders' agreement, all funds invested in physical fiber optic network structures for executing the PoC may be capitalized in the corporate capital in the event of a future partnership to explore the developed business opportunity between SANEPAR and the selected STRATEGIC PARTNER.

CHAPTER V – FINAL PROVISIONS

17. REVOCATION OR NULLIFICATION OF THE RESULT

- 17.1. The existence of any irregularity of the PROPONENT with federal, state, or municipal administrative bodies, whether direct or indirect, shall constitute a barrier to the formalization of the instrument.
- 17.2. 17.2. The PROPONENT must not have any outstanding administrative issues with SANEPAR for the partnership to be finalized.

18. REVOCATION OR NULLIFICATION OF THE SELECTION PROCESS

- 18.1. This PUBLIC CALL may, with due justification, be challenged by any interested party within 5 (five) days of its publication.
- 18.2. The interested party must send its challenge, duly signed and identified in digital format (PDF file), to the electronic address novosnegocios@sanepar.com.br.
- 18.3. SANEPAR shall decide on the challenge within 5 (five) business days of receipt, informing the result directly to the challenger via email.
- 18.4. After this period, submission of a proposal implies acceptance of and compliance with the conditions set forth in this PUBLIC CALL.

19. GENERAL PROVISIONS

- 19.1. SANEPAR reserves the right, at its sole and absolute discretion, not to sign the TECHNICAL COOPERATION AGREEMENT or the respective WORK PLAN, as well as to cancel or change the terms of this PUBLIC CALL without prior notice and without any right of claim by the PROPONENTS who have applied.
- 19.2. All ANNEXES are integral parts of this PUBLIC CALL.
- 19.3. By applying to this PUBLIC CALL, the PROPONENT commits to the truthfulness of the declared information.
- 19.4. Proposals that do not comply with any part of this PUBLIC CALL will be disregarded.

- 19.5. Any questions prior to proposal submission must be sent exclusively to the following email address: novosnegocios@sanepar.com.br.
- 19.6. SANEPAR may, at any stage of this PUBLIC CALL, request additional information or conduct due diligence to clarify or supplement the process.
- 19.7. At any time, at its exclusive discretion, SANEPAR may conduct technical visits to the PROPONENT's headquarters, schedule face-to-face or remote meetings, and/or request clarifications of any kind in order to monitor and verify the accuracy of any information provided.
- 19.8. SANEPAR may disqualify a PROPONENT at any time during this PUBLIC CALL, if deemed justified, with disqualification formally communicated via email.
- 19.9. If the PROPONENT decides to withdraw from this PUBLIC CALL, they must provide official communication to SANEPAR, stating their reasons for withdrawal, sent to novosnegocios@sanepar.com.br.
- 19.10. At any time, this PUBLIC CALL may be revoked, in whole or in part, either by SANEPAR's unilateral decision or in the public interest or legal requirements, with a reasoned decision, without granting any right to indemnification or claim of any nature.
- 19.11. In the event of any supervening fact or in a case of force majeure or fortuitous event, ongoing deadlines shall be suspended and resume once the situation has normalized.
- 19.12. SANEPAR reserves the right to decide on omitted cases and on situations not covered in this PUBLIC CALL and its annexes, and, if necessary, to inform PROPONENTS of any amendments.
- 19.13. Approval in any of the stages of the PUBLIC CALL does not constitute an acquired right to formalize the TECHNICAL COOPERATION AGREEMENT between SANEPAR and the PROPONENT.
- 19.14. Participation or approval in any of the stages of this PUBLIC CALL does not create the right to reimbursement for costs related to studies and materials prepared for submission to the selection process.
- 19.15. Under no circumstances will there be any award, transfer of resources, or financial reimbursement to PROPONENTS or the selected STRATEGIC PARTNER, nor any guarantees, rights, or expectations of financial return.
- 19.16. The TECHNICAL COOPERATION AGREEMENT to be signed will include clauses stating that the activities will be carried out without the transfer of funds between the parties, only using their own structures, technical staff, knowledge, and mutual efforts, with each party bearing their own expenses for any services, materials, and equipment necessary for the scope's completion.
- 19.17. Additional information and clarifications relevant to this PUBLIC CALL may be obtained at the following addresses:
- Companhia de Saneamento do Paraná – SANEPAR
Innovation and New Business Directorate – DIN
Rua Engenheiros Rebouças, 1376, Rebouças, Curitiba, Paraná
ZIP Code 80215-900
Email: novosnegocios@sanepar.com.br
Website: www.sanepar.com.br

20. TIMELINE

- 20.1. The timeline below is merely indicative and may undergo changes that partially or entirely affect the scheduled dates.
- 20.2. The deadline for all electronic submissions is 5:00 p.m. (Brasília time).
- 20.3. Provided there are no changes, the key milestones of the PUBLIC CALL are as follows:

EVENT	EVENT DESCRIPTION	DATE
1	Launch of the PUBLIC CALL	26/02/2025
1.1	Resumption of the PUBLIC CALL	24/04/2025
2	Submission of documentation for the 1st and 2nd stage document analysis	24/04/2025 to 08/06/2025
2.1	Extension: Submission of documentation for the 1st and 2nd stage document analysis	08/06/2025 to 22/07/2025
2.2	Extension: Submission of documentation for the 1st and 2nd stage document analysis	23/07/2025 to 02/09/2025
2.3	Extension: Submission of documentation for the 1st and 2nd stage document analysis	03/09/2025 to 01/11/2025
2.4	Extension: Submission of documentation for the 1st and 2nd stage document analysis	02/11/2025 to 06/02/2026
3	Preliminary results of the document analysis	By 06/03/2026
4	Appeal submission	On the day following the preliminary results, with up to 7 calendar days allowed for appeal submission
5	Final Result Announcement	By 06/04/2026

21. VENUE AND NOTICE DATA

- 21.1. The present **NOTICE** is approved by SANEPAR and issued by the Innovation and New Business Directorate.
- 21.2. The Court of the District of Curitiba, capital of the State of Paraná, is elected as the exclusive forum to resolve any issues arising from this instrument, waiving any other court, however privileged it may be.

Curitiba, October 31, 2025.

Anatalicio Riden Junior
Chief Innovation and New Business Officer
SANEPAR

22. ANNEXES

ANNEX I

TECHNICAL COOPERATION AGREEMENT BETWEEN THE PARANÁ SANITATION COMPANY – SANEPAR AND [], FOR THE DEVELOPMENT OF A BUSINESS OPPORTUNITY RELATED TO THE IMPLEMENTATION OF OPTICAL FIBERS IN SEWER COLLECTION NETWORKS

The PARANÁ SANITATION COMPANY – SANEPAR, a mixed-capital company under the control of the State of Paraná, established by Law No. 4674 of January 23, 1963, with headquarters at Rua Engenheiros Rebouças, No. 1376, in Curitiba, Paraná, registered with the CNPJ/MF (National Registry of Legal Entities) under No. 76.484.013/0001-45, hereinafter referred to as SANEPAR, represented herein by its CEO [], and its Innovation and New Business Director [], and [], hereinafter referred to as [], a private legal entity, with headquarters located at [], [], []th floor, in [], registered with CNPJ/MF under No. [], represented herein by its Director [], enter into this Technical Cooperation Agreement, in accordance with Law No. 13,303 of June 30, 2016, Law No. 13,709/2018 of August 14, 2018, and SANEPAR's Internal Regulations on Bidding, Contracts, and Agreements (RILC), published on November 30, 2020, applicable where pertinent and in compliance with the conditions established in the following clauses:

CLAUSE ONE – PURPOSE

The purpose of this Technical Cooperation Agreement is the mutual interest and objective of technical cooperation between the parties, within their respective competencies, for the development of a business opportunity related to the implementation of infrastructure for an optical fiber network within sewer collection networks, in accordance with the Work Plan attached hereto.

CLAUSE TWO – FORM OF EXECUTION, OVERSIGHT, AND RESPONSIBILITIES OF THE PARTIES

§1º For the fulfillment of the purpose of this Agreement, SANEPAR shall:

Carry out the actions set forth in the Work Plan, under its responsibility, which is an integral part of this instrument;

Provide [] with the information and grant the necessary facilities for achieving the purpose described in CLAUSE ONE;

Allow access to [] research team members at its administrative and operational facilities, as well as the use of equipment to carry out jointly agreed-upon activities set forth in the Work Plan;

Make available SANEPAR's current technical criteria, standards, and procedures for fulfilling the purpose described in CLAUSE ONE;

Perform a periodic evaluation [determine frequency] of the activities carried out and a final evaluation at the end of this Agreement.

§2º For the fulfillment of the purpose of this Agreement, [] shall:

Carry out the actions presented in the Work Plan, under its responsibility, which is an integral part of this instrument;

Provide SANEPAR with the necessary information for achieving the purpose described in CLAUSE ONE;

Comply with SANEPAR's technical criteria, standards, and procedures for fulfilling the purpose described in CLAUSE ONE;

Allow access to SANEPAR's research team members at its administrative and operational facilities, as well as the use of equipment to carry out jointly agreed-upon activities set forth in the Work Plan;

Participate in the semiannual evaluation of the activities carried out and the final evaluation at the end of the legal term of this instrument.

§3º –Joint responsibilities of SANEPAR and []:

Work together in disseminating the results, by organizing and holding events, meetings, and seminars, as well as by means of communications and publications;

Collaborate in future national or international projects, by means of a specific agreement, within the scope of the subject area covered by this instrument, thus respecting the mutual collaboration of efforts devoted to executing the purpose described in CLAUSE ONE.

CLAUSE THREE – RESOURCES

No financial resources will be transferred between the parties at any time, under any circumstances. Contributions and the provision of respective resources, when necessary, will be conducted by mutual agreement between the parties, within the scope of each party's competence and institutional planning, enabling the purpose described in CLAUSE ONE, in accordance with the Work Plan attached to this instrument.

CLAUSE FOUR – TERM

This Technical Cooperation Agreement will be valid for 12 (twelve) months from the date of signature, and may be extended upon mutual agreement by means of an Amendment, for an equal period, provided there is explicit interest expressed by the parties at least 60 (sixty) days prior to the end of its term.

CLAUSE FIVE – TERMINATION

This Technical Cooperation Agreement may be terminated by either party upon prior, written, and justified notice at least 60 (sixty) days in advance.

Sole Paragraph - The parties undertake to fulfill pending commitments and obligations assumed under this instrument, in compliance herewith, and within 30 (thirty) days from the effective date of termination shall draw up a record of early termination, containing a description of the activities carried out and the results obtained, covering the time each party voluntarily participated in the arrangement.

CLAUSE SIX – APPOINTMENT OF MANAGERS

For the performance of the activities outlined in this Technical Cooperation Agreement, the parties designate the following managers:

For SANEPAR:

Technical, Financial, and Administrative Management: [], SANEPAR's [] Manager, CPF (Individual Taxpayer Registry) No. [].

For []:

Technical, Financial, and Administrative Management: [], [], CPF (Individual Taxpayer Registry) No. [].

§1º The managers shall participate in project management and execution of activities, meeting [define frequency], and may make adjustments, with due technical justification, to ensure optimal execution of the objective.

§2º The designated managers may be replaced with prior written notice to the other party.

CLAUSE SEVEN – AMENDMENTS

Any changes to the clauses and conditions of this instrument, except for its purpose, shall be made by agreement between the parties, through an amendment.

CLAUSE EIGHT – ACCOUNTABILITY

The purpose of this instrument must be evaluated by the designated managers, with elements enabling an assessment of its satisfactory progress or concluding that the objectives were achieved according to the agreement, including a description of the activities carried out and evidence of the expected results, as follows:

[Define frequency], the managers shall provide an opinion attesting the adequate progress of the activities, in accordance with the work plan;

Upon completion, the managers shall provide an opinion on the final report, detailing the outcomes achieved and their relation to the objectives of this cooperation instrument.

CLAUSE NINE – OWNERSHIP OF RESULTS

If the activities of this Agreement generate any inventions, improvements, innovations, trademarks, software, industrial designs, copyrights, or other intellectual creations eligible for legal protection under Brazilian law or international conventions to which Brazil is a signatory, the rights related to intellectual property shall belong to both parties and must be addressed, case by case, through negotiations defining each party's share, when signing Amendments.

CLAUSE TEN – CONFIDENTIAL INFORMATION

“Confidential Information” refers to any disclosed or related information pertaining to any of the parties or their affiliates (meaning all controlled, controlling, or under common control companies) or to the Business, as well as any information or data (whether provisional or final), whether of a technical, commercial, financial, legal, or other nature, including but not limited to trade secrets, know-how, and information regarding technology, clients, commercial plans, promotional or marketing activities, economic or financial affairs, and other business activities that, in general, are not public. Such Confidential Information is not limited to, but may be found in, various materials such as drawings, models, data, specifications, reports, compilations, computer programs, formulas, patents, financial and economic spreadsheets, existing or potential client and supplier information, contracts, existing or future products, and any other materials obtained or disclosed before or after the term of this Agreement, including any information disclosed orally. Therefore:

§1. The parties mutually agree to protect and safeguard technical information about their businesses, intellectual property rights, and other know-how to which they become privy as a result of the discussions and negotiations for executing the purpose, which shall be treated as industrial secret, subject to the regulations of the Capital Market in Brazil and abroad.

§2. It is expressly agreed that neither party will use or disclose any of the above-mentioned technical information by way of technical articles, reports, publications, etc., or any information regarding the results of work carried out under this Agreement, without the express and prior co-authorship of both parties.

§3. In addition to co-authorship, the mention of this Agreement, its data source, and its authors will be mandatory for any use and/or disclosure of the aforementioned information.

§4. Information will not be considered confidential if:

It is or becomes publicly known or is disclosed to a third party in a manner unrelated to any obligation of confidentiality by any of the parties;

It has been lawfully obtained from a third party not subject to confidentiality obligations;

It can be lawfully obtained from any public department or government agency, whether federal, state, or municipal; and

It is requested by court order.

CLAUSE ELEVEN – PRIVACY AND PERSONAL DATA PROCESSING

The PARTIES undertake to comply with national and international legislation pertaining to privacy and the processing of personal data, in particular the Brazilian Federal Constitution, the Civil Code, Law No. 13,709 of August 14, 2018 (“Brazilian General Data Protection Law – LGPD”), Law No. 12,965 of April 23, 2014 (“Brazilian Internet Act”), Law No. 8,078 of September 11, 1990 (“Consumer Protection Code”), Complementary Law No. 166 of April 8, 2019 (“Positive Credit Registry Law”), Law No. 12,527 of November 18, 2011 (“Access to Information Law”), Decree No. 7,962 of March 15, 2013 (“E-Commerce Decree”), and other specific or general regulations, as applicable to the scope of this Agreement.

CLAUSE TWELVE – HUMAN RESOURCES

No employee from either party, while carrying out activities related to this Agreement, will undergo any change in their employment status with their institution of origin, although subject to the internal regulations of the location where they are working.

Sole Paragraph – The parties mutually exempt each other from any and all social, labor, social security, tax, insurance, or other expenses, whether specified or not, that might arise directly or indirectly in connection with the staff hired and/or assigned by a party for the purpose of this Agreement. No staff member/employee of one party will have any employment relationship with the other party.

CLAUSE THIRTEEN – IMPEDIMENTS

§1. The parties recognize that SANEPAR is not permitted to enter into agreements in the following cases:

I. With public or private entities in which SANEPAR directors, managers, or employees, or their respective spouses or partners, as well as personnel on secondment or assignment, hold management roles, ownership, or partnership, or who are blood relatives or kin up to the third degree of said individuals;

II. With private entities that cannot prove prior experience in activities related to the subject of this Agreement;

III. With individuals who have, in their previous relationships with SANEPAR, engaged in at least one of the following:

- a) Failure to provide financial accounts as required;
- b) Unjustified non-compliance with the purpose of agreements or sponsorship contracts;
- c) Misuse of allocated funds;
- d) Causing harm to SANEPAR;
- e) Engaging in other illegal acts in performing agreements or sponsorship contracts.

CLAUSE FOURTEEN – ETHICS AND INTEGRITY

Throughout the validity of this Agreement, the PARTIES must comply with Law No. 12,846/2013 (the “Anti-Corruption Law”), as well as Decree No. 11,953/2018 of the State of Paraná, which regulates said Law.

CLAUSE FIFTEEN – TEMPORARY SUSPENSION

This Agreement may be temporarily suspended at any time by either party upon written, substantiated notice, at least 30 (thirty) days before the final expiration date, for a period not exceeding 120 (one hundred and twenty) days.

CLAUSE SIXTEEN – AMICABLE DISPUTE RESOLUTION

The parties declare that this Technical Cooperation Agreement is made in good faith, thus any dispute regarding its operation, formalization, or fulfillment shall be resolved by the parties through amicable means.

CLAUSE SEVENTEEN – VENUE

Any disputes arising in the execution of this Agreement shall be resolved in full through administrative channels, in accordance with the preceding clause. However, if no solution is reached, and as an exceptional measure, the parties hereby elect the Court of Curitiba, Paraná, as the forum to settle any doubts or disputes that may arise from the execution of this Agreement, expressly waiving any other forum, however privileged.

CLAUSE EIGHTEEN – PUBLICATION

This Technical Cooperation Agreement shall be published in extract form in the Official Gazette of the State of Paraná, in accordance with SANEPAR's Internal Regulations on Bidding and Contracts (RILC).

Finally, after reading this Technical Cooperation Agreement and agreeing with its content and conditions, the parties sign this instrument digitally.

FOR “SANEPAR”**FOR []**_____
[]

CEO

[]

CEO

[]_____
Innovation and New Business
Director

ANNEX II

WORK PLAN TEMPLATE

1. IDENTIFICATION

Project Title	Enter the title of the project
Company Name	Enter the legal name of the company
CNPJ	Enter the company's CNPJ number
Responsible Party	Name of the person responsible for the project
Email/Phone	Contact details of the responsible party

2. OBJECT

This WORK PLAN is intended for ... *(define the purpose of the proposal).*

3. COMPANY PROFILE

(Maximum 2,500 characters including spaces.)

4. PROPOSAL JUSTIFICATION

(Maximum 2,500 characters including spaces.)

5. PROPOSAL DETAILS

(Present elements to support and substantiate the proposal according to the categories below.)

A - Technical Solution

(Present elements to support and justify the proposed technical solution both in the PoC context and when scaling up the results, considering the following aspects: technical feasibility, technological innovation, and integration and compatibility with the existing sewer infrastructure. Refer to the item in the Notice that describes the technical conditions for the PoC execution. Also state the PoC length according to ANNEX X.)

B - Regulatory Aspects

(Present elements to support and substantiate how the work plan will address regulatory aspects in the PoC context and when scaling up results, considering the following aspects: regulatory compliance (within the sanitation and telecommunications sectors) and safety and environmental compliance.).

C – Market

(Present elements to support and substantiate the work plan regarding the market understanding for using optical fiber in sewer networks, and how the commercial validation and large-scale implementation will be carried out based on the PoC results. At a minimum, consider the following aspects: market analysis and commercial implementation strategy.)

D – Financial Viability and Risks

(Present elements to support and substantiate the approach for financial and risk analysis in the PoC context and for scaled-up results, considering the following aspects: cost and ROI analysis, business model and revenue, and identification of risks and uncertainties.)

E - Team Capacity

(Provide the profile of the company's professional staff, indicate the team responsible for the implementation and execution of the submitted proposal, include academic background, professional experience, and relevant technical skills and competencies for the proposal's development. You may add supplementary information such as links to résumés/CVs on social networks. Describe the professional profiles, not currently on the team, which are necessary for the proposal's development and implementation.)

6. GOALS TO BE ACHIEVED

(Indicate the quantitative goals of the proposal, covering at least:

- Perform and evaluate the PoC according to the requirements of the Notice;*
- Complete the economic and financial feasibility study;*
- Present the business plan according to the Notice's requirements;*
- Present a draft shareholders' agreement.)*

7. EXECUTION STAGES

(List the stages planned for implementing the proposal and indicate if the responsibility belongs to the company and/or SANEPAR.)

Table 1: Execution Stages

Stage	Stage Description	Responsible Party

8. REQUIRED RESOURCES

(Indicate the resources necessary to execute your proposal—such as minimum team availability, lab analyses, infrastructure, among others—and specify which are the responsibilities of the company and of SANEPAR. List any technical requirements that SANEPAR must fulfill.)

9. ESTIMATED COSTS FOR EXECUTING THE PROPOSAL

(Provide an estimated cost for implementing the proposal.)

10. TECHNICAL COORDINATION

(List the names and professional registration numbers of the technical leads.)

11. WORK SCHEDULE

(Insert the work schedule.)

ANNEX III

OPPORTUNITY REGISTRATION TEMPLATE

Proponent Data	
Company	Enter the company's name
Responsible	Name of the person responsible for the submission
Position	Position of this responsible person
E-mail	Contact email
Phone	Contact phone

Opportunity Data
Opportunity Description
<i>(Briefly describe the opportunity.)</i>
Opportunity Scope
<i>(Define the scope of the opportunity.)</i>
Delivery Deadlines
<i>(Estimated deadlines or phases for results.)</i>

Benefits
<i>(List the expected benefits.)</i>
Differentials
<i>(List key differentiators of the proposed solution.)</i>
Market Size
<i>(Describe or estimate the target market's size.)</i>
Main Competitors
<i>(Identify the main competitors relevant to this opportunity.)</i>
Additional Information
<i>(Add any extra relevant details here.)</i>

Business Model Data	
Value Proposition	
Keywords	Description of the Value Proposition
Customer Segments	
Keywords	Segment Description
Customer Relationships	
Keywords	Description of the Relationship
Canais	
Keywords	Channel Description

Key Partners	
Keywords	Partner Description
Key Activities	
Keywords	Key Activity Description
Key Resources	
Keywords	Key Activity Description
Cost Structure	
Keywords	Cost Description
Revenue Streams	
Keywords	Revenue Description

ANNEX IV

SUMMARIZED BUSINESS MODEL CANVAS

Summarized Business Model Canvas				
Proposal:			Responsible	
Key	Key	Value	Customer	Customer
	Key		Channels	
Cost			Revenue	

ANNEX V

DECLARATION “A” TEMPLATE

DECLARATION REGARDING THE ABSENCE OF IMPEDIMENTS TO ENTER INTO AGREEMENTS WITH SANEPAR

ENTITY IDENTIFICATION:

CNPJ: _____

I, (Name of the representative), holder of identification document, RG: (number) and CPF: (number), Brazilian, (marital status), (profession), residing at (address), a representative of (entity name), CNPJ (number), hereby declare that (entity name) is not subject to any of the prohibitions set forth in Art. 16 of SANEPAR's Internal Regulations on Bidding, Contracts, and Agreements – RILC, attached herewith.

(Location and Date)

(Name, signature, and position of the declarant)

ANNEX VI

CERTIFICATE TEMPLATE

TECHNICAL CAPACITY DECLARATION

ENTITY IDENTIFICATION:

CNPJ: _____

We hereby certify, for all legal purposes, that the company (company's legal name), located at (company's full address), CNPJ (number), was our supplier of services/products in (implementation of fiber optic networks) from xx/xx/xxxx to xx/xx/xxxx.

The aforementioned company has always fulfilled its obligations punctually, regarding the services/products requested, and we certify that it is qualified to perform the contracted objective, and there is nothing discrediting it. It also assumes the truthfulness of all information provided in every stage of the selection process.

(Location and Date)

(Name, signature, and position of the declarant)

ANNEX VII

ANTI-NEPOTISM DECLARATION TEMPLATE

ANTI-NEPOTISM DECLARATION

I, (Name of the representative), holder of identification document RG: (number) and CPF: (number), serving as (position), of (name of the entity), registered under CNPJ (number), hereby declare that there is no kinship up to the third degree between the directors of (entity name) and: SANEPAR directors, SANEPAR employees whose duties involve working in the area responsible for entering into the Agreement, or with any authority of the Government of Paraná. I also acknowledge SANEPAR's Strategic Policy on Related Party Transactions (available on <https://ri.sanepar.com.br/governanca-corporativa/estatuto-codigos-e-politicas/>) and confirm that there is no conflict of interest regarding related parties.

(Location and date), on of 20.....

Name of the Legal Representative of the Applicant

Position

ANNEX VIII

Modelo De Termo De Confidencialidade

CONFIDENTIALITY AGREEMENT TEMPLATE

I, _____, holder of ID (RG) No. _____ and CPF No. _____, **legal representative of the company**, headquartered at _____, registered under **CNPJ No.** _____/-, hereinafter referred to as **CONTRACTOR**, sign this Confidentiality and Non-Disclosure Agreement with the Paraná Sanitation Company – SANEPAR, registered under CNPJ No. 76.484.013/0001-45, due to contract No. _____, whose subject is _____, taking into account the following conditions:

1. Information

- 1.1. "Company Information" shall mean, without limitation, all and any information of a technical, operational, legal, technological, or commercial nature, such as (but not limited to) data, personal data, specifications, industrial secrets, know-how, prices, business strategies, systems, business plans, accounting methods, techniques, and accumulated experience, documents, contracts, papers, reports, opinions, and research, made available in writing, orally, in the form of models, samples, computer programs, or in any other form.

2. Use of Information

- 2.1. The CONTRACTOR states that the use of the Company's Information will be strictly for the purposes stipulated and agreed upon in the contract signed between the parties and shall immediately inform the COMPANY of any possible leaks, misplacements, or losses of these materials so that appropriate measures can be taken in accordance with SANEPAR's Personal Data Protection and Privacy Policy and Information Security Policy. To this end, the CONTRACTOR shall employ information security practices to ensure the inviolability and protection of any information it has access to.

3. Non-Disclosure

- 3.1. Under this agreement, the CONTRACTOR agrees not to use the information it has accessed in the course of its activities for any exclusive or unilateral personal gain, whether present or future, and not to appropriate any material that may become available. The CONTRACTOR further undertakes not to discuss, reveal, transfer for any reason, or dispose of the Company's information, in Brazil or abroad, to any individual or legal entity and for no other purpose than that exclusively related to performing the service. The CONTRACTOR shall take all appropriate precautions to prevent unauthorized use by anyone who, for any reason, has access to such information.

4. Term

- 4.1. This Instrument shall be valid from the date of its signature, and its provisions shall also apply retroactively to any Company Information that may have been disclosed between the parties prior to this agreement.
- 4.2. The confidentiality obligations and other responsibilities hereunder apply throughout the term in which the services are executed and shall remain in effect after the contract

ends, in accordance with the applicable legislation regarding the confidentiality duty of personal, commercial, competitive, strategic, or business information.

5. Liability

- 5.1. In the event of violation of any provision of this agreement, appropriate administrative proceedings will be initiated as per the Company's regulations and the call notice, without prejudice to any legal or judicial measures available in the event of non-compliance, for any reason, with any of the confidentiality and non-disclosure provisions set forth in this Confidentiality and Non-Disclosure Agreement or non-fulfillment of obligations prescribed herein, in any legal documents, or in the corporate documents related to information security applied by SANEPAR. Other administrative sanctions set forth in applicable Brazilian legislation, in the RILC, and/or in the call notice may be applied depending on the severity of the occurrence and/or the damages caused to the Company arising from the unauthorized use, distribution, or disclosure of information and materials without formal, prior approval from the Company.

6. Data Protection

- 6.1. The Parties must process all personal data solely in accordance with this instrument and/or at the request of the other Party. It is expressly prohibited to process data for any other purpose, including anonymized data, without the prior written authorization of the other Party. The Parties shall carefully comply with applicable data protection laws, primarily the General Data Protection Law (Law 13,709/18 – LGPD).
- 6.2. The Parties' obligations regarding personal data processing include:
- I. Maintaining records of processing activities and technical and organizational measures ensuring the security of all personal data;
 - II. Adopting internationally recognized information security standards, including those described in applicable laws and regulations;
 - III. Adopting governance measures in data processing, such as assigning roles and responsibilities to professionals involved in data management;
 - IV. Assisting the other Party at any time in preparing data protection impact assessments, responding to subpoenas, queries, or other notices from competent authorities and/or data subjects; and
 - V. If third-party services are used for data processing or if international data sharing is necessary, the Party must inform the other Party in advance and ensure that the data recipient follows the same security compliance standards required by this instrument and Brazilian legislation, taking responsibility for any damages caused to data subjects or SANEPAR.
- 6.3. In the event of a personal data protection incident, the Parties shall inform the other Party within 24 (twenty-four) hours of the incident, providing information, technical reports, and other relevant support. The Parties shall cover any resulting losses or penalties imposed on the other Party.
- 6.4. If, by virtue of this Agreement, the Parties are considered data controllers under Law No. 13,709/2018, each Party shall, at its own expense and risk, remain in full compliance with that law and shall hold the other Party harmless from any damages or losses resulting from processing deemed unlawful.
- 6.5. In the event described in section 6.4 above, if either Party receives a complaint, notice, or communication from a supervisory authority and/or a data subject related
- I. Data processing under this Agreement in its capacity as controller; or
 - II. A potential breach of data protection laws;
 - III. It shall, to the extent permitted by law, immediately forward such notice to the other Party and provide reasonable cooperation and assistance to resolve the matter.

7. Anti-Corruption

- 7.1. The Parties, for themselves and their subsidiaries, controlled and affiliated companies, as well as their shareholders, managers, executives, employees, agents, subcontractors, and attorneys, expressly agree to:
- I. Comply fully with all applicable laws and regulations, including but not limited to Articles 317 and 333 of the Brazilian Penal Code, Complementary Law No. 101 of 05/04/2000, Law No. 12,529 of November 30, 2011, Law No. 12,846 of August 1, 2013, and other Brazilian laws pertaining to passive and active corruption, competition, fiscal responsibility, and fraud;
 - II. Not offer, whether directly or indirectly, any type of payment or anything of personal value to any public official or to an employee, associate, or affiliate of any entity that is in whole or in part publicly owned or publicly controlled in any of its spheres;
 - III. Not be receiving any monetary or other compensation for the purpose of committing bribery or any other actions that violate this provision;
 - IV. Defend, indemnify, and hold harmless the aggrieved Party and its affiliates, officers, directors, and employees from any lawsuit, expense, or liability arising in connection with this clause.

8. Venue

- 8.1. The Court of the District of Curitiba, State of Paraná, is hereby chosen to the exclusion of any other, no matter how privileged, to resolve any questions or controversies arising from this Instrument.

(Place, day, month, year) _____, _____ on _____ of
20____.

(Local, dia mês, ano)

(Contractor's signature – handwritten, electronic with validator, or digital certificate – ICP Brasil)

ANNEX IX

1. TECHNICAL CONDITIONS FOR IMPLEMENTING THE PROOF OF CONCEPT

The PoC length to be implemented and tested is at the discretion of the **PROPONENT**, which may opt for one or more of the types listed below:

- Proof of Concept Type 01: Covers Area 01, totaling approximately 5 km of network;
- Proof of Concept Type 02: Covers Areas 01 and 02, totaling approximately 8 km of network;
- Proof of Concept Type 03: Covers Areas 01, 02, and 03, totaling approximately 12 km of network.

Figure 1: Options for PoC Implementation



1.2. Proof of Concept Type 2 – 8 km

Figure 3: Detailed view of Proof of Concept Type 2



AREA 02 – SEWER NETWORK COMPOSITION

MATERIAL	DIAMETER (mm)	LENGTH(m)
CERAMIC	150	283,63
PVC	150	2.485,97
TOTAL NETWORK LENGTH		2.770

1.3. Proof of Concept Type 3 – 12 km

Figure 4: Detailed view of the complementary area for PoC Type 3



AREA 03 – SEWER NETWORK COMPOSITION

MATERIAL	DIAMETER (mm)	LENGTH (m)
REINFORCED CONCRETE	500	51,54
REINFORCED CONCRETE	600	244,17
REINFORCED CONCRETE	700	539,75
REINFORCED CONCRETE	800	64
PVC	150	3.880,16
PVC	200	52,20
TOTAL NETWORK LENGTH		4.831,82

Documento: **PUBLIC_CALL_NOTICE_No.001_2025DIN_REV_v06.pdf**.

Assinatura Avançada realizada por: **Anatalicio Ridsen Junior (XXX.691.407-XX)** em 31/10/2025 18:08 Local: SANEPAR/11689.

Inserido ao protocolo **23.248.730-5** por: **Luiz Gustavo Wagner** em: 31/10/2025 18:06.



Documento assinado nos termos do Art. 38 do Decreto Estadual nº 7304/2021.

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