

Executive Board

136th Session Rome, 13–15 September 2022

President's report Proposed Ioan Federative Republic of Brazil Piauí Inclusive and Sustainable Project

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Action: The Executive Board is invited to approve the recommendation

contained in paragraph 52.

Technical questions:

Rossana Polastri Regional Director Latin America and the Caribbean Division e-mail: r.polastri@ifad.org **Claus Reiner**Country Director
e-mail: c.reiner@ifad.org

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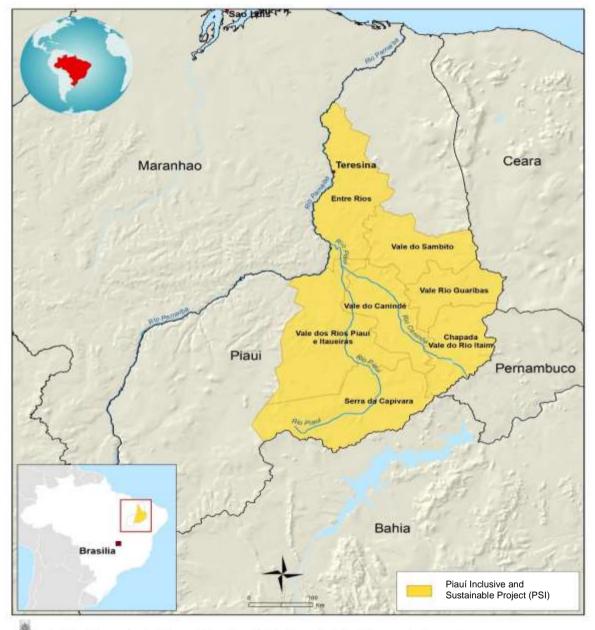
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Map of the project area



The designations employed and the presentation of the material in this map do not imply the expression of any opinion whatsoever on the part of IFAD concerning the delimitation of the frontiers or boundaries, or the authorities thereof.

Map compiled by IFAD | 19-05-2021

Financing summary

Cooperating institution:

Initiating institution: Inter-American Development Bank (IDB) State of Piauí (with a sovereign guarantee from the **Borrower:** Federative Republic of Brazil) **Executing agency:** Secretariat of Planning (SEPLAN) Total project cost: US\$147.5 million Amount of IFAD loan: US\$18.0 million Terms of IFAD loan: Ordinary, with a maturity period of 18 years and a grace period of 3 years at an interest rate equivalent to IFAD's reference rate plus a variable spread **Cofinanciers:** IDB Amount of cofinancing: US\$100 million Terms of cofinancing: Loan Contribution of borrower: US\$29.5 million Contribution of beneficiaries: US\$13 million (the beneficiary contribution will not be accounted for in the total project cost, following IDB procedures) Amount of IFAD climate finance: US\$13.3 million

IDB

Piauí Inclusive and Sustainable Project

I. Context

A. National context and rationale for IFAD involvement National context

- 1. Brazil is an upper-middle-income economy of approximately 211 million people. Despite this, multidimensional inequalities in the country are deep and persistent. Between 2003 and 2012, extreme poverty fell by more than 63 per cent, but this trend has reversed in recent years. Some 52 million Brazilians (24 per cent of the national population) currently live below the poverty line, and 14 million (6.5 per cent), in extreme poverty. Almost half of the poverty in Brazil is concentrated the country's north-east region, which has less than a third of the national population.
- 2. At the moment, Brazil is in the throes of a hunger and food and nutritional insecurity crisis, having regressed to the levels of 2004. In 2020, about 117 million Brazilians experienced some degree of food insecurity, with 43.4 million not having enough food and 19 million facing hunger. Less than half the population in the north-east region (49.7 per cent) has full and regular access to quality food, and more than 7.6 million experienced severe food insecurity in 2020.
- 3. Family farming is strategic in national and state policies to reduce poverty (Sustainable Development Goal [SDG] 1) and promote food and nutrition security (SDG 2), ensuring the livelihoods of the majority of the rural population. The sector employs three-quarters of the agricultural labour force, makes up 77 per cent of farms and is responsible for one third of national agricultural revenue. However, family farmers have little access to human and financial resources, limiting their adaptive capacity and contributing to the increase in rural exodus, poverty and food insecurity.
- 4. **State of Piauí.** With an area of 251,755 km², Piauí is the third-largest north-eastern state, with a population of 3.2 million, 34.2 per cent of it residing in rural areas. Piauí's annual GDP per capita, US\$2,968, is the second-lowest of all states. Some 43 per cent of the Piauí population lives in poverty and 15 per cent in extreme poverty, ranking it the fifth-worst among Brazilian states in this regard. Poverty in the state is concentrated in rural semi-arid areas. Piauí's food insecurity index is the highest in Brazil, affecting 44 per cent of households.

Special aspects relating to IFAD's corporate mainstreaming priorities

- 5. In line with Twelfth Replenishment of IFAD's Resources (IFAD12) mainstreaming commitments, the project has been validated as:
 - □ Including climate finance;
 - ⊠ Gender transformational;
 - ⋈ Nutrition-sensitive;
- 6. **Gender transformational:** The number of households reporting a reduction in the time spent collecting water will be closely monitored as part of the logical framework. Awareness-raising on preventing and addressing gender-based violence is foreseen. Gender parity among project field staff will be sought. IFAD's empowerment indicator will be measured at baseline, midterm and completion, which will enable corrective measures to be adopted, if needed.
- 7. **Youth-sensitive:** Building on the experience of other IFAD-supported projects in Brazil, the Piauí Inclusive and Sustainable Project (PSI) will apply a holistic perspective to youth inclusion. The number of youth with new employment

- opportunities will be monitored through the project's monitoring and evaluation (M&E) system.
- 8. **Nutrition-sensitive:** The project's entry points for the improvement of nutrition are mostly related to improved access to water for household consumption and agricultural production, social technologies aimed at renewable energy, the harvesting and storage of water for household consumption and the recycling of household greywater for fruit and vegetable production. These technologies play a critical role for women and for improving household resilience and nutrition.
- 9. **Climate finance:** Brazil's semi-arid region is among the South American regions most vulnerable to climate change. The project is partially counted as climate finance (around 74.5 per cent). Based on the multilateral development banks' methodology for tracking climate change adaptation and mitigation finance, the total IFAD climate finance for this project is calculated at US\$13.3 million.

Rationale for IFAD involvement

- 10. The PSI is the first loan operation cofinanced by IDB in Brazil. It will apply the IDB's social and environmental standards, which meet IFAD's standards, as confirmed by an IFAD gap analysis.
- 11. IFAD participation in the project has contributed to a sound design that builds on experiences from the ongoing IFAD-financed Semi-arid Sustainable Development Project in the State of Piauí (PVSA), including its differentiated approaches for priority groups such as youth, women and traditional communities such as Afro-descendants and indigenous peoples, and responds to IFAD's four mainstreaming themes, as it is gender-transformative, youth-inclusive, nutrition-sensitive and climate-responsive.
- 12. The PSI cofinancing arrangement also extends project outreach and maximizes complementarities between IFAD and IDB by drawing on the comparative advantages of both financiers. It allows IFAD to leverage its resources and contribute to the following IFAD goals: (i) leveraging additional resources to invest in rural people; (ii) increasing outreach; (iii) increasing public investments toward social inclusiveness and sustainability; (iv) reducing administrative design and supervision costs; and (v) leveraging the complementary knowledge and expertise of IFAD and IDB.

B. Lessons learned

- 13. The project benefits from the following lessons learned from the IDB and IFAD portfolio.
- 14. **Climate resilience of production systems.** Successful investment plans in the semi-arid region emphasize the resilience of productive systems, including the use of technologies for the storage and efficient use of water; the rehabilitation of vegetation cover and water catchments; soil conservation; and the diversification of agricultural activities and market outlets, complementing them with off-farm activities.
- 15. **Technical assistance (TA).** The PSI incorporates the following lessons: (i) apart from technical issues, TA should cover management, finance, procurement and contracts, ensuring good management of investment plans by rural organizations; (ii) diversity in the provision of TA through civil society entities (non-governmental organizations NGOs), private companies and public rural extension agencies; (iii) TA arrangements need contractually agreed goals; and (iv) TA tools must include remote means, such as the use of cell phones, internet and radio.
- 16. **Social technologies.** IFAD has accumulated a great deal experience with social technologies adapted to family farming, which will be upscaled by the PSI. These include cisterns to harvest rainwater for human consumption and production, eco-stoves to reduce firewood consumption, biodigesters to diversify energy

- sources, greywater reuse systems for backyard vegetable irrigation and renewable energy technologies.
- 17. Knowledge management (KM), policy dialogue and South-South and Triangular Cooperation. This is an important comparative advantage of IFAD. The IDB has used many of IFAD's knowledge materials for the design of the PSI. IFAD's significant collaboration with the State of Piauí has led to the production of KM materials relevant for PSI, which are used for policy dialogue. Moreover, IFAD's work in policy dialogue based on knowledge will continue in the project.

II. Project description

A. Objectives, geographical area of intervention and target groups

- 18. The project objective is to improve the income, food security, nutrition, access to basic services and adaptation to climate change of the rural population living in the semi-arid region of Piauí. The specific objectives are to: (i) improve access to water for domestic use and production; (ii) improve the environmental conditions of rural families and their surroundings; and (iii) increase the adoption of agricultural technologies, with emphasis on climate change adaptation and mitigation and the integration of small-scale producers in the value chain, especially women, youth and Afro-descendants.
- 19. The project area covers 138 municipalities in the watersheds of the Piauí and Canindé rivers in Piauí's semi-arid region. PSI will directly benefit 60,000 households (about 210,000 people), 50 per cent of which will be headed by women and 20 per cent by youth, and at least 4,800 households from traditional communities, mainly *quilombola* (Afro-descendants). Some 31,000 households will benefit from group-based investments and TA to improve production and marketing, 28,000 households from access to water and 6,500 households from sanitation improvements.
- 20. The target population comprises poor family farmers and other poor rural populations, with priority given to women, youth and traditional communities. The selection of participating rural communities will be based on their low Human Development Index, lack of water and sanitation services, agricultural productivity constraints, limited access to TA services and environmental degradation situation.

B. Components, outcomes and activities

- 21. **Component 1 (water security and rural sanitation)** will finance small infrastructure works at the household and community level to improve the drinking water supply and basic sanitation and reduce disruptions in transportation during the rainy season. It includes: (i) small works for drinking water, including household cisterns to harvest rainwater for human consumption, and simplified water supply systems with household connections and community sources (surface or underground water); (ii) simplified basic sanitation systems for households, including sewage treatment systems, greywater reuse systems for backyard gardens and green pits; and (iii) fords across intermittent watercourses.
- 22. Component 2 (adaptation to climate change and inclusive social and environmental recovery) will fund four types of intervention: (i) productive adaptation plans (PAPs); (ii) business plans (PNs); (iii) environmental recovery plans (PRAs); and (iv) land and environmental regularization. The plans will benefit producers' organizations, with a focus on women, youth and traditional communities, especially Afro-descendants, who will participate in their formulation and implementation. Land and environmental regularization will be carried out mainly in Afro-descendant communities. PAPs will benefit producers' groups and finance mainly inputs, tools, equipment, technical assistance and small-scale works, and will focus on strengthening food security and nutrition. PNs will finance

cooperatives and economic organizations and will include mainly specialized technical assistance and finance to enhance the production, storage, processing and marketing of products. The PRAs will fund technical assistance and investments by community producers' groups to restore vegetation cover in deteriorated areas of the Piauí-Canindé watershed. The component will also provide funding for land and environmental regularization for the collection of information, georeferencing, Rural Environmental Registry (CAR) registration and issuance of property titles.

23. **Component 3 (institutional strengthening)** will develop the capacities of state secretariats, government agencies and private actors to support sustainable rural development and family farming within the scope of the project. It will be implemented through capacity-building plans for key public institutions and participating community organizations, such as those for the operation and maintenance of water and sanitation infrastructure. It will include studies on technical, environmental and social aspects of the Piauí-Canindé basins and feasibility studies for small dams to be built by potential future projects. Finally, the component will pilot innovative digital solutions for family farming with Agritech and Fintech services. It will also reinforce the work on KM and policy dialogue.

C. Theory of change

- 24. Rural populations in the project area are disproportionately poor, with 30,000 farm households living in extreme poverty and food and nutritional insecurity (44 per cent of households do not have guaranteed food). Traditional communities are disproportionately affected, with 78 per cent of *quilombola* and 66 per cent of indigenous households living in extreme poverty. The main causes are low levels of diversification and low agricultural productivity and income, with limited connection to markets and high dependence on external income, including social transfer programmes. The scarcity of water for human consumption and productive purposes is one of the main reasons for Piauí's limited economic and social development, which makes these populations vulnerable to drought and other impacts of climate change. Furthermore, poor basic sanitation and energy services and lack of economic and training opportunities have intensified the exodus of young people and created a wide gender gap in access to natural, social and economic resources (for example, 76 per cent of landowners in the project area are men).
- 25. To overcome these constraints, the PSI will adopt an integrated strategy encompassing the three interconnected components discussed above to achieve its objectives.
- 26. In the long term, the results should yield a number of impacts that are aligned with the general objective of increasing the rural population's income, access to basic services and adaptation to climate change. The various interventions are expected to contribute to (i) an increase in agricultural income; (ii) a reduction in the incidence of poverty among the beneficiary population; (iii) an increase in the minimum dietary diversity among beneficiary women; and (iv) the reduction of greenhouse gas emissions, mainly through environmental restoration activities.

D. Alignment, ownership and partnerships

27. The project is aligned with the 2030 Agenda of leaving no one behind and the following SDGs in particular: 1 (no poverty), 2 (zero hunger and sustainable agriculture), 5 (gender equality), 6 (clean water and sanitation), 7 (affordable and clean energy) and 13 (climate action). It will contribute to all the mainstreaming themes of IFAD12; to the strategic objectives of the IFAD Strategic Framework 2016-2025: SO1 (increased production), SO2 (increased market participation) and SO3 (increased climate resilience); and to the strategic objectives of the Brazil COSOP 2016-2022, namely to: (i) improve agricultural production, food security and nutrition, and access to markets; (ii) enhance rural development and rural

- poverty reduction programmes; and (iii) strengthen the capacities of government institutions and farmers' organizations.
- 28. The project is fully aligned with the state's rural development policies, particularly its Pluriannual Plan 2020–2023 and Water Resources Plan, and ensures state government ownership under Brazil's decentralized federative system. It is also aligned with several national policies and programs for sustainable rural development and builds on federal projects financed by IFAD (Policy Coordination and Dialogue for Reducing Poverty and Inequalities in Semi-Arid North-east Brazil PDHC-II) and IDB (Program to Support Agricultural Development in the Northeast AgroNordeste), both implemented by the Ministry of Agriculture, Livestock and Food Supply (MAPA).

E. Costs, benefits and financing Project costs

- 29. Total project costs amount to US\$147.5 million, consisting mainly of costs for components 1 and 2 (40 per cent and 48 per cent, respectively). Project management will take up about 7 per cent of the total costs. The project costs will be financed by a US\$100 million loan from the IDB, a US\$18 million loan from IFAD (Borrowed Resource Access Mechanism [BRAM]) and US\$29.5 million as State of Piauí counterpart financing. In addition, project beneficiaries will provide an in-kind contribution of US\$13 million, which has not been included in the total project costs of the design report, pursuant to IDB procedures. Their contribution will amount to approximately 10 per cent of the cost of each PAP and 20 per cent of the cost of each PN.
- 30. The PSI will be financed proportionally by IFAD, IDB and the State of Piauí across all project components. This will ensure IFAD participation and engagement in the entire project and visibility during implementation.

Table 1 **Project costs by component and financier**(Thousands of United States dollars)

	IFAD loa	an	IDB loan		State of Piauí		Total	
Component	Amount	%	Amount	%	Amount	%	Amount	%
Water security and rural sanitation Adaptation to climate change and inclusive social and environmental	7 238	40	40 222	40	11 865	40	59 325	40
recovery	8 690	48	48 265	48	14 239	48	71 194	48
3. Institutional strengthening	864	5	4 801	5	1 416	5	7 081	5
Management, monitoring, evaluation, knowledge management and auditing	1 208	7	6 712	7	1 980	7	9 901	7
Total	18 000	100	100 000	100	29 500	100	147 500	100

31. Pursuant to IDB policies, the allocation table is broken down by component. To simplify implementation arrangements, budget monitoring and financial reporting requirements, the allocation table in IFAD's financing agreement will be by component instead of category. Therefore, the table on project costs by expenditure category and financier is not included.

Table 2
Project costs by component and project year (PY)
(Thousands of United States dollars)

	PY1	PY2	PY3	PY4	PY5	PY6	Total
Component	Amount	Amount	Amount	Amount	Amount	Amount	Amount
Water security and rural sanitation Adaptation to climate change and	2 950	9 687	16 115	17 490	13 083	-	59 325
inclusive social_and environmental recovery 3. Institutional strengthening	4 144 625	10 372 1 610	17 401 2 066	19 503 1 440	12 546 720	7 228 620	71 194 7 080
Management, monitoring, evaluation,	023	1 010	2 000	1 440	720	020	7 000
knowledge management and auditing	1 301	1 720	1 929	1 929	1 720	1 301	9 901
Total	9 021	23 389	37 511	40 362	28 067	9 150	147 500

Disbursement

32. The State of Piauí will open a designated account in United States dollars, to be used exclusively for resources provided by IFAD. Funds will be transferred in local currency from the designated account to the operational accounts of the State of Piauí. The pari passu will be monitored during project implementation and achieved at the end of the project. The project will submit withdrawal applications to the IDB. IDB will review withdrawal applications to ensure compliance with the provisions of the IFAD financing agreement and provide written confirmation to IFAD that the conditions for disbursement have been met and authorizing payment to proceed.

Summary of benefits and economic analysis

33. The financial analysis showed an economic internal rate of return for the project of 13.66 per cent and a net present value of US\$7.7 million. A comparative cost analysis showed that project investment costs are reasonable and comparable to those of other IDB investments: (i) the project's rural sanitation solutions cost between US\$493 and US\$684 per household; and (ii) land regularization investments cost US\$12.4 per ha.

Exit strategy and sustainability

34. The PSI will upscale the PVSA approach of building the capacity of rural producers' organizations to produce sustainably with a high level of climate resilience, and to offer lasting services to their members. Moreover, component 3 will strengthen state capacities to ensure the delivery of high-quality services to rural populations during and after the project period. Project management will implement a project exit strategy aimed at the sustainability of interventions; this will be underpinned by the work on KM and policy dialogue. The fact that the PSI is cofinanced by IFAD and IDB also means that its methodology, mainstreaming and operations could be scaled up in other projects financed by IDB, which has a significant presence in the country and region.

III. Risks

A. Risks and mitigation measures

35. The integrated project risk matrix was prepared according to IFAD's guidelines. The overall PSI risk is substantial and the residual risk moderate.

Table 3 Risks and mitigation measures

Risk areas	Inherent risk rating	Residual risk rating
Country context	Substantial	Moderate
Sector strategies and policies	High	Moderate
Environment and climate context	High	Moderate
Project scope	Moderate	Low
Institutional capacity for implementation and sustainability	Substantial	Moderate
Financial management	Substantial	Low
Project procurement	Moderate	Low
Environment, social and climate impact	Substantial	Moderate
Stakeholders	Moderate	Low
Overall	Substantial	Moderate

B. Environment and social category

36. IFAD conducted a gap analysis comparing the IDB Environmental and Social Policy Framework (ESPF) with IFAD's 2021 Updated Social, Environmental and Climate Assessment Procedures (SECAP). The analysis confirmed that IFAD's social, environmental and climate change commitments will be adequately met with the use of the ESPF and corresponding performance standards. The project is classified as category B. Anticipated environmental and social impacts that could arise from project implementation are minimal. Adequate monitoring and verification of safeguard compliance is considered throughout the life of the project.

C. Climate risk classification

37. The climate risk is classified as moderate. No information considered significant is lacking, the measures to mitigate risks are identified and the project will include a climate and disaster risk analysis.

D. Debt sustainability

38. The State of Piauí's debt was rated "A" in 2021, based a debt ratio of 56 per cent. In addition, the National Treasury Secretariat of the Ministry of Economy's rating, which covers indebtedness, current savings and liquidity, qualifies the State for a sovereign guarantee by the Federal Government of Brazil. The loan will be guaranteed by the Federal Government of Brazil.

IV. Implementation

A. Organizational framework

Project management and coordination

39. The PSI will have a six-year implementation period. The implementing agency will be the State of Piauí's Secretariat of Planning (SEPLAN), jointly with the Secretariat of Family Agriculture (SAF), the Secretariat of Environment and Water Resources (SEMAR) and the Land Institute of Piauí (INTERPI). One project management unit (PMU) and seven field-based territorial project units will be established to ensure a solid presence in the project area.

Financial management, procurement and governance

40. **Financial management.** The financial team from the SEPLAN PMU is responsible for the project's financial management. The IDB will be appointed as cooperating institution and be responsible for managing and supervising the implementation of IFAD's financing. It will do so based on a letter of appointment that includes details of supervision arrangements such as missions, financial reporting and audits. To simplify implementation arrangements, IFAD will accept the application of IDB financial policies and procedures, which IFAD has reviewed to confirm their alignment with IFAD's fiduciary requirements.

External audit. The project's annual accounts and financial statements will be audited by a private audit firm in compliance with international auditing standards and IDB policies and procedures. The audited financial statements shall be submitted to IDB and IFAD no later than six months after the end of every fiscal year. The arrangements for financial management, procurement and governance will be described in the project implementation manual and be based on the IDB quidelines for project financial management and procurement (GN-2349-15 for procurement of goods and works, and GN-2350-15 for procurement of consultants). They will also draw on the implementation experience of the PVSA. The procurement plan will identify the items subject to ex ante or ex post procurement review. As per the gap analysis of the IDB guidelines and procedures, the following IFAD procedures will be applied by IDB: (i) contractor and consultant self-certification in all bidding documents and contracts, in compliance with IFAD's Policy on Preventing Fraud and Corruption in its Activities and Operations and its Policy on Preventing and Responding to Sexual Harassment, Sexual Exploitation and Abuse; and (ii) the use of IFAD's contract monitoring tool system to register signed contracts and update their status.

Project target group engagement and feedback and grievance redress

42. The PSI's design included a stakeholder consultation involving 250 people from the entire project area. A project coordination committee with operational responsibilities will also be formed, composed of project representatives, the operational teams of SAF, SEMAR and INTERPI and representatives from civil society and beneficiaries. In addition, the project will hold mobilization and consultative workshops and meetings in the field to increase the participation of local actors and beneficiaries.

Grievance redress

43. The grievance mechanism adopted will be that of the IDB, in line with its Environmental and Social Policy Framework (ESPF), which includes the specific grievance mechanism (*Mecanismo de Resolução de Queixas* [MRQ] in IDB terminology in Portuguese). The mechanism will be established during the consultations and maintained during project implementation.

B. Planning, monitoring and evaluation, learning, knowledge management and communications

44. The project planning and M&E system is aligned with the IFAD logical framework. The PVSA baseline and impact studies were critical to informing the preparation of the project logical framework. In order to align with IFAD's mainstreaming criteria, the logical framework includes several IFAD core indicators on outreach, number of persons with new jobs/employment opportunities, percentage of women reporting minimum dietary diversity, households provided with targeted support to improve their nutrition, number of households reporting a significant reduction in the time spent collecting water, tons of CO2e avoided/sequestered, households reporting the adoption of environmentally sustainable and climate-resilient technologies and IFAD's empowerment indicator. The project will conduct baseline, midterm and impact surveys.

Innovation and scaling up

45. The project has innovation and scaling-up potential in areas such as access to digital technologies in rural extension. The PSI itself represents a scaling-up experience, as it is based on the PVSA implemented by IFAD in the State of Piauí, which will close on 31 December 2022. It is expected to give rise to further cofinanced operations with IDB and other multilaterals operating in Brazil.

C. Implementation plans

Implementation readiness and start-up plans

46. The PVSA substantially increased the implementation readiness of the State of Piauí for the PSI, thus allowing for a smooth and rapid project start-up. Furthermore, IDB and IFAD will prepare a start-up mission and consider retroactive financing to support the start-up process.

Supervision, midterm review and completion plans

- 47. Regular supervision and implementation support missions will be undertaken, and a midterm review and a completion mission will be carried out. The IDB will be the appointed cooperating institution for the project, responsible for administrating the IFAD loan based on the IDB-IFAD cooperation agreement.
- 48. As per the cooperation agreement, IDB will coordinate the plans and terms of reference for supervision and other missions with IFAD in advance, so that IFAD can contribute to mission preparations and execution. During supervision missions, IFAD will cover topics that respond to project needs, in coordination with IDB and the State of Piauí. In recognition of IFAD's high-quality supervision and implementation support, IDB and IFAD will collaborate closely to make good use of IFAD's knowledge and experience.

V. Legal instruments and authority

- 49. A financing agreement between the State of Piauí and IFAD and a guarantee agreement between the Federative Republic of Brazil and IFAD will constitute the legal instruments for extending the proposed financing to the borrower. A copy of the negotiated financing agreement is attached as appendix I.
- 50. The State of Piauí is empowered under its laws to receive financing from IFAD.
- 51. I am satisfied that the proposed financing will comply with the Agreement Establishing IFAD and the Policies and Criteria for IFAD Financing.

VI. Recommendation

52. I recommend that the Executive Board approve the proposed financing in terms of the following resolution:

RESOLVED: that the Fund shall provide a loan on ordinary terms to the State of Piauí with a sovereign guarantee from the Federative Republic of Brazil in an amount of eighteen million United States dollars (US\$18,000,000) and upon such terms and conditions as shall be substantially in accordance with the terms and conditions presented herein.

Gilbert F. Houngbo President

Negotiated financing agreement: "Piauí Inclusive and Sustainable Project"

(Negotiations concluded on 31 August 2022)
Loan No:
Project Name: Integrated Project for Water Security, Environmental Sustainability and Socio-productive Development of the Piauí and Canindé Rivers Basin, State of Piauí - Piau Inclusive and Sustainable Project (PSI) (the "Project")
State of Piauí - Federative Republic of Brazil (the "Borrower/Recipient")
and
The International Fund for Agricultural Development (the "Fund" or "IFAD")

WHEREAS, the Borrower has requested a loan from the Fund for the purpose of financing the Project described in Schedule 1 to this Agreement;

WHEREAS, the Project shall be co-financed by the Inter-American Development Bank (the "IDB"). The Borrower and the IDB will enter into a financing agreement (the "IDB Loan Agreement") to provide one hundred million United Sates Dollars (USD 100 000 000) for the Project;

WHEREAS, the Fund and IDB will enter into a Coordination Agreement (the "Coordination Agreement") to stablish the responsibilities of IDB as the administrator (the "Cooperating Institution") of the execution of the activities financed through the IFAD Loan;

WHEREAS, the Fund has agreed to provide financing for the Project;

(each a "Party" and both of them collectively the "Parties")

Now Therefore, the Parties hereby agree as follows:

Section A

- 1. The following documents collectively form this Agreement: this document, the Project Description and Implementation Arrangements (Schedule 1), the Allocation Table (Schedule 2) and the Special Covenants (Schedule 3).
- 2. The Fund's General Conditions for Agricultural Development Financing dated 29 April 2009, amended as of December 2020 (the "General Conditions") are annexed to this Agreement, and all provisions thereof shall apply to this Agreement. For the purposes of this Agreement the terms defined in the General Conditions shall have the meanings set forth therein, unless the Parties shall otherwise agree in this Agreement.
- 3. The Fund shall provide a loan to the Borrower (the "Loan" or "Financing"), which the Borrower shall use to implement the Project in accordance with the terms and conditions of this Agreement.
- 4. The Loan is to be guaranteed by the Federative Republic of Brazil (the "Guarantor") on the terms and conditions set forth in an agreement, of even date, to be entered into by the Fund and the Federative Republic of Brazil (the "Guarantee Agreement").

Section B

- 1. The amount of the Loan is up to eighteen million United States dollars (USD 18 000 000)
- 2. The Loan is granted on ordinary terms and shall have a maturity period of eighteen (18) years, including a grace period of three (3) years starting from the date on which the Fund has determined that all general conditions precedent to withdrawal have been fulfilled in accordance with Section 4.02(b) of the General Conditions.
- 3. The Loan Service Payment Currency shall be in United States dollars (USD).
- 4. The first day of the applicable Fiscal Year shall be 1 January.
- 5. Payments of principal and interest shall be payable on each 15 May and 15 November.
- 6. There shall be a Designated Account opened by and held in the name of the Borrower in USD, for the exclusive use of the Project. The Borrower shall inform the Fund of the officials authorized to operate the Designated Account.
- 7. There shall be a Project Account in Brazilian Real (BRL) for the benefit of the Government of the State of Piauí in a bank selected by the Borrower.
- 8. The Borrower shall provide counterpart financing for the Project in the amount of four million five hundred thousand United States dollars (USD4,500,000), which shall also include the payment of taxes.

Section C

- 1. The Lead Programme Agency shall be the Secretariat of Planning of the State of Piauí (SEPLAN) or its successor with the same attributions and legal competencies, subject to prior approval by the Fund for the purposes of the Project.
- 2. The following are designated as additional Project Parties: Secretariat of Family Farming (SAF), the Secretariat of Environment and Water Resources (SEMAR) and the Land Institute of Piauí (INTERPI) or their successors with the same attributions and legal competencies, subject to prior approval by the Fund for the purposes of the Project.
- 3. A Mid-Term Review mission will be conducted as specified in Section 8.03 (b) and (c) of the General Conditions; however, the Parties may agree on a different date for the Mid-Term Review mission of the implementation of the Project.
- 4. The Project Completion Date shall be the sixth anniversary of the date of entry into force of this Agreement and the Financing Closing Date shall be 6 months later, or such other date as the Fund may designate by notice to the Borrower.
- 5. Procurement of goods, works and services financed by the Financing shall be carried out:
- (a) in accordance with the provisions of the IDB Policy for the Procurement of Goods and Works Financed by the IDB (GN-2349-15) and the Policy for the Selection and Contracting of Consultants Financed by the IDB (GN-2350-15) as referred in the Coordination Agreement between IDB and IFAD.

Section D

- 1. The Loan shall be administered by the Fund.
- 2. The Project shall be supervised by the IDB as the Cooperating Institution.

Section E

- 1. The following are designated as additional grounds for suspension of this Agreement:
 - (a) The Project Implementation Manual (PIM) (Regulamento Operacional do Projeto (ROP) in IDB language) and/or any provision thereof, has been waived, suspended, terminated, amended or modified without the prior agreement of IDB, and the Fund, after consultation with the Borrower, has determined that it has had, or is likely to have, a material adverse effect on the Project.
- 2. The following are designated as additional (general/specific) conditions precedent to withdrawal:
 - (a) The Guarantee Agreement shall have been duly signed, and the signature thereof by the Guarantor shall have been duly authorised by all necessary administrative and governmental authorities;
 - (b) The PIM (ROP in IDB language) shall have been agreed;
 - (c) The Project Designated Account and the operational accounts shall have been opened.
 - (d) The Project Management Unit (PMU) shall have has been established within SEPLAN and its members appointed.
 - (e) The IDB Loan Agreement shall have entered into full force and effect.
 - (f) The right of the Borrower to withdraw the proceeds of the IDB Loan Agreement has not been suspended, cancelled or terminated, in whole or in part, or the IDB Loan has become due and payable prior to the agreed maturity thereof provided that the Parties could not have reached an agreement on a mutual solution.
- 4. The following provisions of the General Conditions shall not apply to this Agreement:
 - Section 5.02; (Repayments and Prepayments of Principal):
 - (c) The Fund may modify the repayment terms applicable to the principal amount of the Loan disbursed and outstanding in accordance with the applicable accelerated repayment and voluntary prepayment framework of the Fund.
 - (d) Pursuant to paragraph (c) above, upon notification by the Fund to the Borrower, the Borrower shall repay twice the original amount of the remaining loan instalments of the withdrawn loan outstanding, along with any interest due.
 - (e) If, at any time after the repayment terms have been modified pursuant to paragraph (c) above, the Fund determines that the Borrower's economic condition has deteriorated significantly, the Fund may, if so requested by the Borrower, further reverse the terms of repayment of the principal amount to the ones originally agreed upon in this Agreement.

	ring are the designated representatives and addresses to be used for any related to this Agreement:
For the Borrowe	er:
Centro Su CEP: 6400	ntonino Freire, n. 1450 I
Coordena Esplanada CEP 7004 Tel nº + 5	oria-Geral da Fazenda Nacional ção-Geral de Operações Financeiras da União or dos Ministérios, Bloco "P", 8º Andar, Sala 803 0-900, Brasília, Distrito Federal, Brasil 05 (61) 3412.2842 0010cof.df.pgfn@pgfn.gov.br
For the Fund:	
	nal Fund for Agricultural Development di Dono 44 me, Italy
This Agreement original copies, Guarantor.	one (1) for the Fund, one (1) for the Borrower and one (1) for the
Тн	E STATE OF PIAUÍ
	authorised Representative Name]" authorised Representative title]"
Da	te:
Int	ERNATIONAL FUND FOR AGRICULTURAL DEVELOPMENT
Pre	esident
Da	te:

Schedule 1

Project Description and Implementation Arrangements

I. Project Description

- 1. Target Population. The target population comprises family farmers and rural populations living in poverty and extreme poverty in the Project area.
- 2. Project area. The Project area will cover 138 municipalities. The geographic targeting strategy is based on the state priority for water investments in the watershed of the Piauí and Canindé rivers in Piauí's semiarid region and selects areas with high levels of poverty and vulnerability to climate change, food and nutrition insecurity, and a low human development index (the "Project Area").
- 3. General Objective. The general objective of the Project is to improve the rural population's income, food security, nutrition, access to basic services and adaptation to climate change.
- 4. Specific objectives. The specific objectives are to: (i) improve access to water for human consumption and agricultural production; (ii) improve the environmental conditions of rural families and their surroundings; and (iii) increase the adoption of agricultural technologies, with an emphasis on climate change adaptation and mitigation, and improve the integration of producers into value chains, especially women, youth and Afrodescendants (quilombolas).
- 5. *Components*. The Project shall consist of the following Components:
- 5.1 Component 1. Water security and rural sanitation
- 5.1.1 . The component will fund: (i) small works in rural communities to improve the supply of potable water, including individual cisterns to collect and store rainwater for human consumption, domestic water supply networks and fountains; (ii) basic sanitation (simplified individual systems); and (iii) wet passages to reduce transport disruptions in the rainy season.
- 5.1.2 The works that will be funded by component 1 must meet the following eligibility criteria: (i) correspond to rural water supply works (cisterns, water supply networks with home connection and hydrometer, fountains), sanitation (simplified individual systems) and wet passages; (ii) demonstrate socioeconomic feasibility, in accordance with the cost-benefit and cost-effectiveness simplified analysis methodologies accepted by the IDB applied to the selected sample; and (iii) comply with applied socio-environmental requirements of the Project's Environmental and Social Management Framework (MGAS).
- 5.1.3 For water supply networks with a home connection and a water meter, the following eligibility criterion will also apply: a cooperation agreement must be signed between the respective municipality and the Integrated Rural Sanitation System (SISAR), with the objective of formalizing the obligations related to the operation and management of the collective water system. For wet passages, the following eligibility criterion will apply: a legal instrument must be signed between the Borrower and the respective municipality, in which the municipality assumes responsibility for maintaining the infrastructure of the works.
- 5.2 Component 2. Adaptation to Climate Change and Inclusive Social and Environmental Recovery.
- 5.2.1 This component will fund four types of interventions: (i) Productive Adaptation Plans (PAPs); (ii) Business Plans (PNs); (iii) Environmental Recovery Plans (PRAs); and (iv) land and environmental regularization. The plans will benefit producer organizations, with a focus on women, youth and traditional communities, especially Afro-descendants, who will participate in their formulation and implementation. Land and environmental regularization

will be carried out mainly in Afro-descendant communities. PAPs will benefit producers' group and will finance mainly inputs, tools, equipment, technical assistance, and small-scale works and will focus on the strengthening of food security and nutrition. PNs will finance cooperatives and economic organizations and will include mainly specialized technical assistance and finance to enhance the production, storage, processing and marketing of products.

- 5.2.2 The PRAs will fund technical assistance and investments by community producer groups to restore vegetation cover in deteriorated areas of the Piauí-Canindé watershed. The Component will also provide funding for land and environmental regularization for the collection of information, georeferencing, Rural Environmental Registry (CAR for its acronym in Portuguese) registration and issuance of property titles.
- 5.2.3 To enhance the income for women, Afro-descendants and youth, at least 25% of total resources for PAPs will go to associations and cooperatives that have a majority and are led by women, at least 15% to Afro-descendants communities and at least 5% to youth-only groups. Prioritization criteria will also be defined for PAPs and PNs that favour mixed groups with a higher proportion of women, youth and Afro-descendant producers. Each plan will fund a maximum of US\$4,000 per beneficiary and US\$400,000 per plan for PAPs and US\$600,000 for PNs. The PRAs will fund a maximum of US\$1,500 per beneficiary and US\$33,000 per plan. The Project Implementation Manual (PIM) (ROP in IDB language) will contain additional requirements applicable for PAPs, PNs and PRAs.
- 5.3 Component 3. Institutional strengthening
- 5.3.1 The component's objective is to improve the capacities of key institutions in rural development. This component will fund three types of actions: (i) capacity building plans that will include training, consultancy, equipment, vehicles and information systems to improve the management of the main public rural development institutions, as well as to strengthen community organizations for the operation and maintenance of water supply and sewage sanitation works; (ii) studies to improve knowledge on relevant technical, environmental and social aspects of the Piauí-Canindé basin; technical, economic, environmental and social feasibility of engineering studies of basic projects to regularize the availability of water supply in the basin; and (iii) diagnostics and pilot experiences that contribute to the development of a state policy to support innovation in rural areas.

II. Implementation Arrangements

- 6. Lead Project Agency. The Lead Project Agency of the Project will be the Borrower, through the State Secretariat for Planning (SEPLAN), in which a Project Management Unit (PMU) will be created. The Secretary of State for Family Farming (SAF), the Secretary of State for the Environment and Water Resources (SEMAR) and the Land Institute of Piauí (INTERPI) will act as additional Project parties in the implementation of the Project's actions, in accordance with their legal competences.
- 7. Project Coordination Committee. A Project Coordination Committee with operational responsibilities will also be created, composed of representatives of the UCP and the operational teams of SAF, SEMAR and INTERPI.
- 8. Project Management Unit (PMU). The Lead Project Agency, through the PMU, will be responsible for the overall management and coordination of the Project, and will ensure compliance with this Agreement and the PIM. Among other attributions, it will be responsible for: (i) maintaining formal communication with the IDB; (ii) submit disbursement and accountability requests to the IDB; (iii) coordinate monitoring and evaluation activities; (iv) submit to the IDB the consolidated Annual Operational Plan and Budget (AWPB), Implementation Plan of the Project (PEP), Procurement Plans and progress reports; and (v) coordinate with SAF, SEMAR and INTERPI the execution of activities, monitor the execution of the budget and obtain the necessary inputs for the financial records and the due rendering of accounts to the IDB. The PMU will have the following

minimum team: (i) a project coordinator; (ii) a finance specialist; (iii) two procurement specialists; (iv) an environmental specialist; (v) a gender specialist; and (vi) a monitoring and evaluation (M&E) specialist and (vii) a civil engineer. SAF will be responsible for Component 1. Component 2 will be the shared responsibility of SAF (PAPs and PNs), SEMAR (PRAs) and INTERPI (land and environmental regularization). SEPLAN will be responsible for Component 3, with the support of SAF, SEMAR and INTERPI.

- 9. Monitoring and Evaluation (M&E). The Project will also fund equipment and consultancy needed for administration and management, monitoring and evaluation, knowledge management and auditing.
- 10. Knowledge Management (KM) and Policy Dialogue. IFAD strong collaboration with the State of Piauí led to the production of Knowledge Management materials for many of the areas which will be covered by the PSI. It has also developed partnerships in Piauí in knowledge management, which will be linked to policy dialogue initiatives.
- 11. Project Implementation Manual (PIM) (ROP in IDB language). The Project implementation will be in accordance with this Agreement and the PIM. In case of discrepancy between this Agreement and the PIM, the Agreement will prevail. Any change or modification in the PIM, will require prior no objection from the IDB. The PIM will include operational details regarding the IDB and IFAD financing and supervision arrangements.

Schedule 2

Allocation Table

1. Allocation of Loan Proceeds. (a) The Table below sets forth the components of Eligible Expenditures to be financed by the Loan and the allocation of the amounts to each component of the Financing and the percentages of expenditures for items to be financed in each component:

Component	IFAD Loan Amount Allocated (Expressed in USD)	State of Piauí Amount Allocated (Expressed in USD)	Percentage
Water security and rural sanitation	7 238 000	1 809 000	IFAD 100% net of taxes
Adaptation to climate change and Inclusive Social and Environmental Recovery	8 690 000	2 173 000	IFAD 100% net of taxes
Institutional Strengthening	864 000	216 000	IFAD 100% net of taxes
Management, monitoring, evaluation, knowledge management and auditing	1 208 000	302 000	IFAD 100% net of taxes
TOTAL	18 000 000	4 500 000	

- (b) The terms used in the Table above are defined as follows:
 - (i) Water security and rural sanitation: Eligible Expenditures under Component 1 including small works, consultancies, studies, technical assistance, workshops, training, goods, services, equipment, and materials.
 - (ii) Adaptation to climate change and Inclusive Social and Environmental Recovery: Eligible Expenditures under Component 2, including grants and subsidies for productive investments, small works, consultancies, studies, technical assistance, workshops, training, goods, services, equipment and materials;
 - (iii) Institutional Strengthening: Eligible Expenditures under Component 3, including small works, consultancies, studies, technical assistance, workshops, training, goods, services, equipment and materials.
 - (iv) Management, monitoring, evaluation, knowledge management and auditing: Eligible Expenditures for the operation of the Project, including salaries and allowances (in the case of permanent staff, to be financed only by the State Government), consultancies, studies, workshops,

training, goods, services, equipment, and materials, related to both the PMU and the Territorial Management Units (TMU).

2. Disbursement arrangements

(a) Start-up Costs. Withdrawals in respect of expenditures for start-up costs (in III and IV component(s) incurred before the satisfaction of the general conditions precedent to withdrawal shall not exceed an aggregate amount of USD 200 000the following amounts per component. Activities to be financed by Start-up Costs will require the no objection from IFAD to be considered eligible.

Negotiated guarantee agreement: "Piauí Inclusive and Sustainable Project"

(Negotiations concluded on 31 August 2022)

This GUARANTEE AGREEMENT is signed on _____, 2022 between the FEDERATIVE REPUBLIC OF BRAZIL (hereinafter referred to as "Guarantor") and the INTERNATIONAL FUND FOR AGRICULTURAL DEVELOPMENT (hereinafter referred to as "IFAD" or "the Fund" and together the "Parties").

WHEREAS:

Through Financing Agreement No. ______(hereinafter referred to as "Financing Agreement"), entered into on this same date in _______, between IFAD and the State of Piauí of the Federative Republic of Brazil (hereinafter referred to as "Borrower"), IFAD has agreed to provide the Borrower with a Financing of a Loan of eighteen million United States dollars (USD 18 000 000), provided that the Guarantor guarantees the Borrower's financial obligations for the Loan and remains fully bound until full payment of such obligations stipulated in the referred Financing Agreement and that the said Guarantor contracts the additional obligations specified in this Agreement.

The Guarantor, given the fact that IFAD signed the Financing Agreement with the Borrower, agreed to guarantee unconditionally and irrevocably the due and timely payment of the principal, interest and other charges of the Loan, in accordance with the provisions of this Agreement.

THE PARTIES agree the following:

- 1. The following documents collectively constitute an integral part of this Agreement: this Agreement, the Financing Agreement, and the Fund's General Conditions for Agricultural Development Financing dated 29 April 2009, as amended in December 2020 (the "General Conditions"). Unless the context otherwise requires, the several terms defined in the General Conditions and the Financing Agreement have the respective meanings therein set forth.
- 2. The Guarantor hereby unconditionally and irrevocably guarantees, as primary obligor and not as surety merely, the due and timely payment of the principal of, and the payment of interest and other charges on the Loan due under the Financing Agreement whose terms the Guarantor declares to be fully aware of. These financial obligations do not include the commitment by the Borrower to provide additional resources to the execution of the Project.
- 3. The Guarantor undertakes not to take any action or allow, within the scope of its competence, measures to be taken that hinder or prevent the execution of the Project or obstruct the fulfillment of any obligation of the Borrower established in the Financing Agreement.
- 4. In cases of amendments to the Financing Agreement, the Borrower must obtain the prior approval of the Guarantor to any modifications or amendments to the Financing Agreement.
- 5. The Guarantor undertakes to:
 - (a) cooperate, within the scope of its competence, to ensure the fulfillment of the objectives of the Financing;

- (b) inform IFAD, as urgently as possible, of any fact that makes it difficult or may make it difficult to achieve the objectives of the Financing, or the fulfillment of the Borrower's obligations;
- (c) within its competence, provide IFAD with the information it reasonably requests regarding the Borrower's situation;
- (d) facilitate to IFAD's representatives, within the scope of its competence, the exercise of their functions related to the Loan and the execution of the Project; and
- (e) inform IFAD, as urgently as possible, if it is, in compliance with its obligations as a joint debtor, making payments corresponding to the Loan.
- 6. The Guarantor agrees that both the principal and interests, and other charges on the Loan will be paid without any reduction or restriction, free of any taxes, fees, duties or charges set forth in the laws of the Federative Republic of Brazil, and that both this Agreement and Financing Agreement will be exempt from any applicable tax, fee or duty in connection with the execution, registration and execution of contracts.
- 7. The Guarantor will not be released from any liability with IFAD until the Borrower has fully complied with all the financial obligations assumed in the Financing Agreement. In the event of any default by the Borrower, the Guarantor's obligation will neither be subject to any notification or challenge, nor to any procedural formality, demand or prior action against the Borrower or against the Guarantor itself. In the event of default by the Borrower, the Fund shall not be required to exhaust its remedies against the Borrower prior to enforcing its rights against the Guarantor. The Guarantor also expressly waives any rights, order or excussion benefits, faculties, favors or resources that assists, or may assist the Guarantor. The Guarantor declares itself aware that it will not release any of its liability to IFAD if there is: (a) an omission or abstention by IFAD in the exercise of any rights, powers or remedies that has against the Borrower; (b) IFAD's tolerance or agreement with the Borrower's default or delays that he may incur in fulfilling its obligations; (c) deadlines extensions or any other concessions made by IFAD to the Borrower, provided that it has the prior consent of the Guarantor; (d) alteration, amendment or revocation, in whole or in part, of any of the provisions of the Financing Agreement, provided that they are made with the prior consent of the Guarantor.
- 8. IFAD's delay or abstention in the exercise of the rights agreed in this Agreement cannot be interpreted as a waiver of such rights, nor as an acceptance of the circumstances that would allow it to exercise them.
- 9. Any dispute that arises between the Parties regarding the interpretation or application of this Agreement, which cannot be resolved by mutual agreement, will be subject to arbitration, as established in Section 14.04 of the General Conditions. For the purposes of this arbitration, all references made to the Borrower in the aforementioned Section apply to the Guarantor.
- 10. Unless a written agreement stipulates another procedure, all notices, requests or communications that the contracting Parties must send to each other under this Agreement must be made, without exception, in writing and will be considered effective upon their delivery to the addressee, by any usual means of communication, at the address indicated below:

For IFAD:

The President
International Fund for Agricultural Development
Via Paolo di Dono 44
00142 Rome, Italy
Fax: XX

For the Guarantor:

Ministério da Economia Procuradoria-Geral da Fazenda Nacional Esplanada dos Ministérios, Bloco P, 8º Andar CEP: 70.048-900 Brasília, DF

Brasil

Fax: +55 (61) 412-1740

Copy to:

Ministério da Economia Secretaria do Tesouro Nacional Coordenação-Geral de Controle da Dívida Pública Esplanada dos Ministérios, Bloco P, Ed. Anexo, Ala A, 1º andar, sala 121 CEP 70048-900 Brasília – DF – Brasil

mail: geror.codiv.df.stn@tesouro.gov.br; codiv.df.stn@tesouro.gov.br

IN WITNESS WHEREOF, the Guarantor and IFAD, each acting through its authorized representative, have signed this Agreement in two (3) copies one for IFAD, one for Guarantor and one for Borrower, of equal content and for a single effect in [place of signature] on the date indicated above.

FEDERATIVE REPUBLIC OF BRAZIL	INTERNATIONAL FUND FOR AGRICULTURAL DEVELOPMENT (IFAD)
[Name] [Position]	 [Name] [Position]

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Logical framework

Results Hierarchy	Indicators				Means of Verification	Assumptions		
	Name	Baseline	Mid-Term	End Target	Source	Frequency	Responsibility	
Outreach	1 Persons receiving services promoted or suppo	rted by the p			Project M&E System	Semi-annual	Project M&E Unit	
	Males - Males	0	12000	30000				
	Females - Females	0	12000	30000				
	Young - Young people	0	4800	12000	7			
	Indigenous people - Indigenous people	0	1920	4800	7			
	Total number of persons receiving services - Number of people	0	24000	60000				
	1.a Corresponding number of households reache	ed	I .		Project M&E system	Semi-annual	Project M&E Unit	†
	Households - Households	0	24000	60000	- reject ma_ system		. reject ma_ c.m	
	1.b Estimated corresponding total number of hou			1	Project M&E system	Semi-annual	Project M&E Unit	
	Household members - Number of people	0	84000	210000	7			
Project Goal	Índice de Pobreza Multidimensional reducido (He	adcount aius						Continuity of public
Mejorar los ingresos, el acceso a los servicios básicos y la adaptación al cambio climático de la población rural	IPM - Percentage (%)	39	35	29	Impact Survey	Baseline, Mid-Term, and End of Project	Independent consultancy firm	policies and programs that support rural poverty reduction
Development Objective	1.2.8 Women reporting minimum dietary diversity	y (MDDW)	1	•	Outcome (COI) /	Baseline, Mid-Term,	Project M&E Unit /	Maintenance of
Mejorar los ingresos, las	Women (%) - Percentage (%)	0	50	50	Impact Survey	and End of Project	Independent consultancy firm	policies and
capacidades de resiliencia y la	Women (number) - Females	0	1800	7500	7	·		incentives that favor agroecological productive transformation; Technical assistance
seguridad alimentaria y	Households (%) - Percentage (%)	0	15	25	7			
nutricional de las familias	Households (number) - Households	0	3600	15000	7			
alvos y poblaciones	Household members - Number of people	0	12600	52500				
vulnerables.	Women-headed households - Households	0	1800	7500	7			
	IE.2.1 Individuals demonstrating an improvement	in empower	ment	•	Outcome (COI)/ Impact Survey	Baseline, Mid-Term, and End of Project	Project M&E Unit /	responds to the
	Total persons - Percentage (%)	0	40	40			Independent consultancy firm	needs of the market and the Project; Covid19's economic crisis shows improvement
	Total persons - Number of people	0	9600	24000				
	Females - Percentage (%)	0	70	70				
	Females - Females	0	6720	16800				
	Males - Percentage (%)	0	30	30	7			
	Males - Males	0	2880	7200	7			
	Ingreso productivo anual de los agricultores fami	liares aumer	ntado		Impact Survey	Baseline, Mid-Term, and End of Project	Project M&E Unit /	
	Ingresso productor (R\$ / año / productor) - Number	6205	8000	11855	7 '		Independent consultancy firm	
	Ingresso mujeres (R\$ / año / productor) - Number	2774	4000	7128	7			
	Ingresso productor - comunidades tradicionales (R\$ / año / productor) - Number	4376	5500	6474				
	SF.2.1 Households satisfied with project-supporte	ed services	•	•	Outcome (COI) /	Baseline, Mid-Term,	Project M&E Unit /	1
	Household members - Number of people	0	63000	157500	Impact Survey	and End of Project	Independent consultancy firm	
	Households (%) - Percentage (%)	0	75	75	7 ·			
	Households (number) - Households	0	18000	45000	7			
Outcome	Porcentaje de agricultores familiares que utilizaro	n riego	•	•	Impact Survey	Baseline, Mid-Term,	Project M&E Unit /	Continuidad de las
 Acceso al agua para el 	Households - Percentage (%)	20.8	22	25.7	7 '	and End of Project	Independent consultancy firm	políticas y programas
consumo humano y productivo	Tiempo dedicado a la recolección de agua por ho	gar			Impact Survey	Baseline, Mid-Term,	Project M&E Unit /	públicos en el Estado
mejorado	Tiempo - Horas / persona / mês - Number	3	2	1	7	and End of Project	Independent consultancy firm	de Piauí
	3.2.3 Households reporting a significant reduction water or fuel	n in the time	spent for co	llecting	Outcome (COI) / Impact Survey	Baseline, Mid-Term, and End of Project	Project M&E Unit / Independent consultancy firm	
	Households - Households	0	3668	9170	1,		.,	
	Households - Percentage (%)	0	15	15	7			
	Total household members - Number of people	0	12838	32095	1			
	Women-headed households - Households	0	1834	4585	7			
	Cantidad de agua consumida por hogar	•	•		Impact Survey	Baseline, Mid-Term,	Project M&E Unit /	1
	Cantidad - Litros / hogar / día - Number	134	246	280	1 '	and End of Project	Independent consultancy firm	
	Hogares con acceso mejorado al agua potable y				Impact Survey	Baseline, Mid-Term,	Project M&E Unit /	1
	Households - Number	0	9496	23740	┦ ' '′	and End of Project	Independent consultancy firm	
	Se mantiene tasa de mora en pago de tarifa en sis abastecimiento de agua				SISAR Piauí / Impact Survey	Baseline, Mid-Term, and End of Project	Project M&E Unit / Independent consultancy firm	1
					Survey	and Life of Froject	macponachi consultancy IIIII	ii aan aan aan aan aan aan aan aan aan a

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1.1. Abastecimiento de agua para consumo humano	Familias apoyadas con tecnologías sociales para	la recolecc	ión, almacen	amiento y	M&E system reports	Semi-annual	Project M&E Unit	La infraestructura
para consumo humano	reutilización de agua							básica y social continúa siendo
	Households - Number	0	13000	27740				
Output	Familias apoyadas con tecnologías de saneamien			1	M&E system reports	Semi-annual	Project M&E Unit	proporcionada por el
1.2. Abastecimiento de agua para consumo humano	Households - Number	0	3170	6520				gobierno.
Output	Número de pasos vados para el tráfico sobre curs	sos de agua	a construidas	•	M&E system reports	Semi-annual	Project M&E Unit	
1.3. Movilidad rural	Pasos vados - Number	0	30	60				
Outcome	Superficie de las cuencas de Piauí y Canindé con	cobertura	forestal recup	erada	M&E system and	Mid-Term and End of	Project M&E Unit /	Las seguías o el
Mejorar las condiciones ambientales de las familias rurales y su entorno	Hectares - Number	10138079	10100000	10013961	SEMAŘ	Project	Independent consultancy firm	cambio climático se
	Percentage de agricultores que reportaron que el	espejo de a	agua tenía un	bosque	Impact Survey	Baseline, Mid-Term,	Project M&E Unit /	gestionan con las
	ribereño completamente ausente		•	•		and End of Project	Independent consultancy firm	medidas de
	Households - Percentage (%)	20	17	11		1		adaptación
	Superficie de las propiedades rurales registradas	en el CAR	•	•	M&E system and	Semi-annual	Project M&E Unit /	adecuadas
	Hectares - Number	0	22000	55000	SEMAŔ		Independent consultancy firm	
	SF.2.2 Households reporting they can influence de	ecision-ma			Outcome (COI) /	Baseline, Mid-Term.	Project M&E Unit /	
	and project-supported service providers		•		Impact Survey	and End of Project	Independent consultancy firm	
	Household members - Number of people	0	63000	157500	1 '	, , , , , , , , , , , , , , , , , , , ,	,	
	Households (%) - Percentage (%)	0	75	75	<u></u>			
	Households (number) - Households	0	18000	45000	1			
Output	1.1.4 Persons trained in production practices and	_		.0000	M&E system reports	Semi-annual	Project M&E Unit	Se mantienen las
2.1 Planes de Adaptación	Total number of persons trained by the project -	0	9230	9230			i i i jost man om	políticas de
Productiva (PAD) y Planos de	Number of people	~	0230	0200	1			seguridad
Negocio (PN)	Men trained in crop - Males	0	4615	4615	1			alimentaria; los fenómenos meteorológicos extremos tienen
	Women trained in crop - Females	0	4615	4615	-			
	Young people trained in crop - Young people	0	1846	1846				
	Total persons trained in crop - Young people Total persons trained in crop - Number of people	0	9230	9230	1			
	· · · · · · · · · · · · · · · · · · ·					 		efectos limitados en
	Agricultores familiares beneficiados por planes de	e negocios			M&E system reports	Semi-annual	Project M&E Unit	la producción; Los
	Agricultores - Number	0	750	1050				proveedores de
	1.1.8 Households provided with targeted support		M&E system reports	Semi-annual	Project M&E Unit	servicios		
	Total persons participating - Number of people	0	4112	10280	-			proporcionan bienes y servicios de calidad.
	Males - Males	0	2056	5140				
	Females - Females	0	2056	5140				
	Households - Households	0	4112	10280				
	Household members benefitted - Number of people	0	14392	35980				
	Young - Young people	0	822	2056				
Output 2.2 Planes de Recuperación	Diagnóstico y definición de áreas prioritarias, par realizados	a bosques	ribereños y d	e cabecera	M&E system reports	Semi-annual	Project M&E Unit	Continuidad de las políticas y programa:
Ambiental .	Diagnóstico - Number	0	2	2	7			públicos en el Estad de Piauí.
	Planes de recuperación ambiental para áreas de 5	ha de boso	ques maduros	de los ríos	M&E system reports	Semi-annual	Project M&E Unit	
	Piauí y Canindé y sus afluentes elaborados, imple	ementados	y mantenidos	;				
	Planes - Number	0	70	100	1			
	Planes de Recuperación Ambiental para áreas de	3ha en cab	eceras de las	cuencas de	M&E system reports	Semi-annual	Project M&E Unit	
	los ríos Piauí y Canindé elaborados, implementad	los y mante	enidos					
	Planes - Number	0	25	33				
	Número de técnicos, productores, jóvenes rurales	s y docente	s que partici	oaron en	M&E system reports	Semi-annual	Project M&E Unit	
							· ·	
	acciones de educación ambiental							
		0	2925	5925	-			
	acciones de educación ambiental	-		5925	M&E system reports	Semi-annual	Project M&E Unit	 -
	acciones de educación ambiental Technical - Number	-		5925	M&E system reports	Semi-annual	Project M&E Unit	-
Output	acciones de educación ambiental Technical - Number Número de técnicos y productores que participare	on de interd	1145		M&E system reports M&E system reports	Semi-annual Semi-annual	Project M&E Unit Project M&E Unit	Disponibilidad de
	acciones de educación ambiental Technical - Number Número de técnicos y productores que participare Technical - Number	on de interd	1145		,		•	Disponibilidad de equipos técnicos
2.3. Titulación de tierras y	acciones de educación ambiental Technical - Number Número de técnicos y productores que participare Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males	on de intero 0 ecure acce	1145 ss to land 939	2330	,		•	
2.3. Titulación de tierras y	acciones de educación ambiental Technical - Number Número de técnicos y productores que participar Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females	on de intere 0 ecure acce	1145 ss to land 939 939	2330 3130 3130	,		•	equipos técnicos
2.3. Titulación de tierras y	acciones de educación ambiental Technical - Number Número de técnicos y productores que participar Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people	on de intere	1145 ss to land 939	2330 3130 3130 313	,		•	equipos técnicos para garantizar
Output 2.3. Titulación de tierras y regularización ambiental	acciones de educación ambiental Technical - Number Número de técnicos y productores que participar Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people Total number of beneficiaries with increased	on de intere 0 ecure acce 0 0	1145 ss to land 939 939 94	2330 3130 3130	,		•	equipos técnicos para garantizar
2.3. Titulación de tierras y	acciones de educación ambiental Technical - Number Número de técnicos y productores que participar Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people Total number of beneficiaries with increased secure access to land - Number of people	on de intere 0 ecure acce 0 0 0	2ambios 1145 ss to land 939 939 94 1878	2330 3130 3130 313 6260	M&E system reports	Semi-annual	Project M&E Unit	equipos técnicos para garantizar
2.3. Titulación de tierras y	acciones de educación ambiental Technical - Number Número de técnicos y productores que participare Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people Total number of beneficiaries with increased secure access to land - Number of people Porcentaje de propiedades rurales beneficiadas a	on de intere 0 ecure acce 0 0 0 0	2ambios 1145 ss to land 939 939 94 1878	2330 3130 3130 313 6260	,		•	equipos técnicos para garantizar
2.3. Titulación de tierras y	acciones de educación ambiental Technical - Number Número de técnicos y productores que participar Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people Total number of beneficiaries with increased secure access to land - Number of people Porcentaje de propiedades rurales beneficiadas a tierras por el Proyecto con CAR realizada y/o rect	on de intere 0 ecure acce 0 0 0 0	cambios	2330 3130 3130 313 6260 ación de	M&E system reports	Semi-annual	Project M&E Unit	equipos técnicos para garantizar
2.3. Titulación de tierras y regularización ambiental	acciones de educación ambiental Technical - Number Número de técnicos y productores que participar Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people Total number of beneficiaries with increased secure access to land - Number of people Porcentaje de propiedades rurales beneficiadas a tierras por el Proyecto con CAR realizada y/o rect Propiedades rurales - Percentage (%)	on de interd 0 ecure acce 0 0 0 0 0 o nualmente ificada	2ambios 1145 ss to land 939 939 94 1878	2330 3130 3130 313 6260	M&E system reports M&E system reports	Semi-annual Semi-annual	Project M&E Unit Project M&E Unit	equipos técnicos para garantizar servicios de calidad.
2.3. Titulación de tierras y regularización ambiental Outcome	acciones de educación ambiental Technical - Number Número de técnicos y productores que participare Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people Total number of beneficiaries with increased secure access to land - Number of people Porcentaje de propiedades rurales beneficiadas a tierras por el Proyecto con CAR realizada y/o rect Propiedades rurales - Percentage (%) 2.2.1 Persons with new jobs/employment opportu	on de interd 0 ecure acce 0 0 0 0 nualmente ificada 0 nities	1145 1145 ss to land 939 939 94 1878 con regulariz	2330 3130 3130 313 6260 ación de	M&E system reports M&E system reports Outcome (COI) /	Semi-annual Semi-annual Baseline, Mid-Term,	Project M&E Unit Project M&E Unit Project M&E Unit	equipos técnicos para garantizar servicios de calidad.
2.3. Titulación de tierras y	acciones de educación ambiental Technical - Number Número de técnicos y productores que participar Technical - Number 1.1.1 Number of beneficiaries gaining increased s Males - Males Females - Females Young - Young people Total number of beneficiaries with increased secure access to land - Number of people Porcentaje de propiedades rurales beneficiadas a tierras por el Proyecto con CAR realizada y/o rect Propiedades rurales - Percentage (%)	on de interd 0 ecure acce 0 0 0 0 0 o nualmente ificada	cambios	2330 3130 3130 313 6260 ación de	M&E system reports M&E system reports	Semi-annual Semi-annual	Project M&E Unit Project M&E Unit	equipos técnicos para garantizar

Appendix II EB 2022/136/R.28/Rev.1

adaptación y mitigación del	Total number of persons with new	0	738	1846				políticas y programas	
cambio climático, y la	jobs/employment opportunities - Number of people							públicos en el Estado	
integración de los productores	3.2.2 Households reporting adoption of environn	nontally ough	oinable and a	limata	Outcome (COI) /	Baseline, Mid-Term,	Project M&E Unit /	de Piauí. Los	
en las cadenas de valor	resilient technologies and practices	nemany sust	amable and C	Jiiiiale-	Impact Survey	and End of Project	Independent consultancy firm	proveedores de	
	Total number of household members - Number of	0	6720	28770	Impact Survey	and End of Froject	independent consultancy iiiii	servicios	
	people		0720	20770				proporcionan bienes	
	Households - Percentage (%)	0	3.2	13.7				y servicios de	
	Women-headed households - Households			1			calidad.		
	Households - Households	0	1920	8220					
	Porcentaje de agricultores familiares que particip	paron en aso			Impact Survey	Baseline, Mid-Term,			
	cooperativas		о.шо.ооо р. ч		past Sairs)	and End of Project	Project M&E Unit / Independent consultancy firm		
	Households - Percentage (%)	27.7	40	73.4		,,,,,,	, , , , , , , , , , , , , , , , , , , ,		
	Porcentaje de agricultores familiares que vendier	on su produ	cción en los	mercados	Impact Survey	Baseline, Mid-Term,	Project M&E Unit /	1	
	Households - Percentage (%)	72.3	80	86.7	1 '	and End of Project	Independent consultancy firm		
	Barrantala da mailana mara anno anno dina				lean and Oursell	Danalina Mid Tarra	Danie at MOE Hait /		
	Porcentaje de mujeres que ocuparon cargos dire		Impact Survey	Baseline, Mid-Term, and End of Project	Project M&E Unit / Independent consultancy firm				
	Females - Percentage (%)	31.2	40	50	M0 =			JIIIII	
	Agricultores con acceso mejorado a inversiones	y servicios a	-	10280	M&E system reports	Semi-annual	Project M&E Unit		
	Households - Number	U Namia dimital	4112	10280	MOT avatam ranarta	Annual	Drain at MR F Limit		
	Instituciones con capacidades de gestión y tecno Instituciones - Number	Ι 4	M&E system reports	Annual	Project M&E Unit				
	Incremento de la proporción de propietarios en e	l éres de pre	2	4	Impact Survey	Baseline, Mid-Term, and End of Project	Project M&E Unit /		
	segura en sus derechos de propiedad	i area de pro	yecto que se	siente			Independent consultancy firm		
	Propietarios - Percentage (%)	63.2	70	84.8			independent consultancy initi		
Output	Planes de fortalecimiento de capacidad institucio			04.0	M&E system reports	Semi-annual	Project M&E Unit	Se mantienen las	
3.1 Planes de fortalecimiento	Planes - Number		5	5	I MAL System reports	Seriii-ariiruai	Project M&E Offic	políticas vigentes de	
de capacidades	Planes de fortalecimiento de capacidad institucio	nal eiecutad		J	M&E system reports	Semi-annual	Project M&E Unit	fortalecimiento de los	
ao dapadiaaado	Planes - Number	nai ejecutau	5	5				servicios públicos de	
	Sistemas de monitoreo y evaluación elaborados	1 0	<u> </u>	J	M&E system reports	Semi-annual	Project M&E Unit	asesoría técnica y	
	Sistemas - Number	0	4	4	I WIGE System reports	Jenn-annuai	1 Toject Wal Offic	extensión.	
	Equipos ejecutores y co-ejecutores capacitados	~		monitoreo v	M&E system reports	Semi-annual	Project M&E Unit	_	
	evaluación y ejecución de las actividades para lo								
	Equipos - Number	0	4	4					
Output	Estudios técnicos y socioambientales para el des	sarrollo de la	cuenca. sub	cuencas v	M&E system reports	Semi-annual	Project M&E Unit	Existen mecanismos	
3.2 Estudios y proyectos en la	de obras de represas elaborados		, , , , , , , , , , , , , , , , , , , ,		ma_ oyotom ropotto		l reject ma_ crim	para la adaptación al	
cuenca Piauí-Canindé	Estudios - Number	0	2	5				cambio climático.	
	Planes de gestión de las cuencas Canindé/Piauí	elaborados e	implementa	dos	M&E system reports	Semi-annual	Project M&E Unit	1	
	Planes - Number	0	0	3	<u> </u>		,		
Output	Número de diagnósticos sobre la demanda y ofe	rta de servici	ios de innova	ción	M&E system reports	Semi-annual	Project M&E Unit	Continuación de las	
3.3 Apoyo a la innovación	tecnológica concluídos				-	políticas públicas y			
	Diagnósticos - Number	0	2	2				programas de apoyo	
	Número de cooperativas apoyadas con acciones	de innovacio			M&E system reports	Semi-annual	Project M&E Unit	a la comercialización	
	Cooperativas - Number	0	2	5				de productos de la agricultura familiar.	
Outcome	3.2.1 Tons of Greenhouse gas emissions (tCO2e)	avoided and	d/or sequeste	red	Impact Survey -	Ex ante, mid term	Independent consultancy firm	agricultura farrillidi.	
	Hectares of land - Area (ha)	0	0	424	Carbon-Balance Tool	and final Carbon-			
	tCO2e/20 years - Number	0	0	-99805	(EX-ACT)	Balance Tool (EX-			
		+	-			ACT)	. (=-:		
	tCO2e/ha - Number	0	0	-4990					

Integrated project risk matrix

Risk Category / Subcategory	Inherent risk	Residual risk
Country Context	Substantial	Moderate
Political Commitment	Substantial	Moderate
Governance	Moderate	Low
Macroeconomic	Substantial	Moderate
Fragility and Security	Substantial	Moderate
Sector Strategies and Policies	High	Moderate
Policy alignment	High	Moderate
Policy Development and Implementation	Substantial	Moderate
Environment and Climate Context	High	Moderate
Project vulnerability to environmental conditions	High	Moderate
Project vulnerability to climate change impacts	High	Moderate
Project Scope	Moderate	Low
Project Relevance		No risk envisaged - not applicable
Technical Soundness	Moderate	Low
Institutional Capacity for Implementation and Sustainability	Substantial	Moderate
Implementation Arrangements	Substantial	Moderate
Monitoring and Evaluation Arrangements	Moderate	Low
Project Financial Management	Substantial	Low
Project Organization and Staffing	Substantial	Moderate
Project Budgeting	Substantial	Moderate
Project Funds Flow/Disbursement Arrangements	Substantial	Moderate
Project Internal Controls	Substantial	Low
Project Accounting and Financial Reporting	Moderate	Low
Project External Audit	Low	Low
Project Procurement	Moderate	Low
Legal and Regulatory Framework	Moderate	Low
Accountability and Transparency	Low	Low
Capability in Public Procurement	Moderate	Moderate
Public Procurement Processes	Moderate	Low
Environment, Social and Climate Impact	Substantial	Moderate
Biodiversity Conservation	Moderate	Low

Risk Category / Subcategory	Inhere risk	nt Resid		sidual risk	
Resource Efficiency and Pollution Prevention	Substantial		Moderate		
Cultural Heritage		No risk env not applica		c envisaged - plicable	
Indigenous People	Low		Low		
Labour and Working Conditions	Moderate		Low		
Community Health and Safety				No risk envisaged - not applicable	
Physical and Economic Resettlement			No risk envisaged - not applicable		
Greenhouse Gas Emissions	Substant	ial	Modera	ate	
Vulnerability of target populations and ecosystems to climate variability and hazards	High		Substa	intial	
Stakeholders	Moderate	!	Low		
Stakeholder Engagement/Coordination	Low		Low		
Stakeholder Grievances	Moderate		Low		
Overall	Substant	ial Modera		ate	
Country Context		Sub	stantial	Moderate	
Political Commitment		Sub	stantial	Moderate	
Changes in political authorities at the state and national levels are relevant and could alter the executing agency's priorities and produce changes in the technical teams, delaying the Project implementation. Although PSI enjoys full political support from the State Government's current leadership, the result of the upcoming 2022's elections may slightly change the scenario concerning the political commitment to the Project.		Sub	stantial	Moderate	
The project responds directly to the state government's priorities and interests. It aligns with programs and public policies that are not expected to change in the medium term. The PSI also fits the Federal Government's priorities according to the criteria established for external financing, as evidenced by the high rating of the Project by the Commission for External Financing (COFIEX). The risks will be mitigated through the involvement of several other partners in PSI development, including public state agencies, civil society, private sector. Also, IDB and IFAD					

will keep a continuous dialogue with state and federal		
counterparts to inform new authorities of Project characteristics and benefits, as well as keep participating in policy dialogue platforms such as the Forum of State Secretaries and Northeast		
Consortium. IFAD Office in Salvador will play a critical role in monitoring changing political scenario.		
Governance	Moderate	Low
Risk:		
Weakening of state government secretariats aimed at rural development, family farming, environmental conservation, and poverty reduction due to increased political power of the agribusiness sectors (monoculture for export) may interfere in the allocation of resources to rural development. Nevertheless, this risk is considered low to moderate, as the country and state institutions are solid and exhibit a long-term commitment to family farming and poverty alleviation policies targeting the poorest and most vulnerable rural populations.	Moderate	Low
Mitigations:		
The project will adopt a multisectoral approach to tackle the main problems affecting the rural populations of the Project area. PSI will strengthen, integrate and develop government programs and policies related to sustainable rural development. Besides, the Project will include a capacity-building component to help strengthen key rural development institutions and secretariats at the state level.		
Macroeconomic	Substantial	Moderate
i) Unstable political and economic environment with trends of increase in inflation, unemployment, decreasing/low GDP growth, and deterioration of public accounts. ii) If the fiscal situation worsens due to the lingering economic effects of COVID-19 and unfavorable developments in the international and national context, this could undermine the state government's capacity to mobilize and allocate sufficient funding to the Project and could delay implementation. iii) If the Brazilian Real appreciates compared to the Dollar, the Program costs could increase (in Dollars), and the budget would be insufficient to execute the Project activities as planned. iv) The	Substantial	Moderate

effects of the Ukraine war in Brazil, and in Piauí as a consequence, are the increase in costs of fertilizers imported and in commodities prices, particularly corn, wheat, oil and sunflower oil, which could affect general food prices. The restrictions of the supply – or just the possibility of lower availability – already boosted prices and worsen the national inflation rates.		
Mitigations:		
i) Close monitoring of the macroeconomic situation and policies. ii) Consistent political dialogue at federal and state levels. iii) Elaborating PSI action plans, considering the most likely future scenarios, and adjusting priority actions and Project disbursement according to contextual changes whenever necessary. iv) Regarding the impacts of the war in Ukraine, the Project will partner with procurement consultants and technical assistance (TA) teams to map a wider network of suppliers, how their peers are handling the crisis, and support innovative solutions to manage the impacts of the war in supply availability and costs. Besides, the productive investment plans that will benefit producers (ERP, PAPs and BP) will take current and future inflation macroeconomic tendencies into consideration in their economic feasibility analysis.		
Fragility and Security	Substantial	Moderate
The economic fragility in the past years, coupled with the drastic effects of a pandemic of undetermined duration, led to high unemployment rates and an exponential increase in the population living below the poverty line in Brazil. That figure, which was 9.5 million people in August 2020, tripled to more than 27 million in February 2021. With the upsurge of the pandemic, the number of people in food insecurity also considerably increased, especially in the North and Northeast regions. In 2020, food and nutrition insecurity affected 71,9% of households in the Northeast region. These trends, along with the political tensions that precede the 2022 elections may lead to a serious situation of institutional insecurity.	Substantial	Moderate
Mitigations:		
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PSI's integrated resilience approach shall help address various climate, economic and environmental shocks. Besides activities aimed at improving family farmers' ability to recover from hazards, Project interventions aim to assure food and nutritiona security, poverty reduction, and minimization of target groups' economic losses to external shocks. The PSI has in its general objective food security.		
Sector Strategies and Policies	High	Moderate
Policy alignment	High	Moderate
Risk:		
There is a risk that possible public policies are not sufficiently aligned with IFAD and IDB's priorities (especially regarding access to land, environment, climate, gender, diversity, youth, food and nutrition), potentially limiting the scope of PSI's development objectives and operation. In addition, there may b discrepancies between state and federal political priorities, which may also affect the Project.	High e	Moderate
Mitigations:		
The Project design is fully aligned with Piaui's Pluriannual Pla (PPA) for 2020-2023, Piaui's Water Resources Plan, Pillars of Growth and Social Inclusion Project, and Pro Piaui. PSI will be implemented at the state level and in an area of poverty prevalence, where the water issue is a consensual priority, reducing the risks of misalignment. At the federal level, PSI is aligned with several policies and programs, such as Brazil's Determined National Contribution (NDC) objective of establishing sustainable agriculture that is resilient to climate change; National Adaptation Strategy (ENAAC), and National Adaptation Plan to Climate Change (PNA); Cisterns Program, National Rural Environmental Registry System (SICAR), National Technical Assistance and Rural Extension Policy for Family Farming and Agrarian Reform (PNATER), PAA, PNAE, and PRONAF. The exceptionally high rating of the project by the Commission for External Financing (COFIEX) illustrates the sound alignment with federal policies. IFAD and IDB will continue dialoguing with the federal agencies to ensurtheir awareness of the project objectives and activities.		
then awareness of the project objectives and activities.		

Risk:		
The risk that strategies and policies aimed at the rural and agricultural sector are not based on solid evidence, do not accurately represent rural organizations' views and are inadequately supported by a regulatory framework, affecting the Project implementation and the achievement of its goals.	Substantial	Moderate
Mitigations:		
i) The Project will build a solid basis for collaboration with research institutions and civil society partners with strong experience regarding the semiarid context, besides counting on the capacity and experience of a strong M&E system to ensure that empirical data and information can guide its implementation. ii) PSI will be based on a bottom-up rural development approach, facilitating beneficiary participation in Project implementation and building the capacity of poor rural people and their organizations. iii) The Project's Steering Committee will serve as a participatory mechanism, ensuring that there is broad representation in the implementation of the Project. iv) IDB and IFAD will ensure PSI receives constant feedback on innovative approaches, good practices, and policies from other projects in their portfolios. v) The partnership between IFAD and the IDB, both international bodies with a state and federal impact, will help to minimize the risks. vi) In addition, IFAD grants, such as DAKI-Semiárido Vivo, can help and support the preparation for Project implementation. vii) Finally, IFAD continues to support policy dialogue instruments, thus ensuring the effective implementation of the PSI.		
Environment and Climate Context	High	Moderate
Project vulnerability to environmental conditions	High	Moderate
he Project area faces long-term degradation of Caatinga's cological and productive functions, with 33% of the Piauí ome (84.000 km2) affected by moderate desertification rocesses. Degraded riverside areas also affect the hydrological anctioning of the basin. This context constitutes a risk to the roductivity of the agricultural activities supported by the roject.		Moderate
Mitigations:		

		1
i) The Project's interventions include the environmental recovery of priority protection areas (riparian forests) to improve hydrological services in the Piauí and Canindé watersheds, co-benefits for biological corridors, environmental regularization initiatives, investments in basic rural sanitation, and institutional strengthening in territorial environmental management. ii) The PSI productive component will also contribute to reducing environmental vulnerability by supporting family farmers and communities with technical assistance to adopt agroecological and resilient productive practices. (i.e. water access technologies, such as household cisterns, greywater reuse systems, solar powered desalination units, among others) iii) To fulfill the requirements of IDB's Environmental and Social Policy Framework and the provisions of the Performance Standards (PS), the executing entity will implement an Environmental and Social Management System for the PSI and has already elaborated and disclosed a preliminary Strategic Environmental and Social Impact Assessment.		
Project vulnerability to climate change impacts	High	Moderate
Almost all of the project area belongs to the semiarid region. Therefore, it is constantly subject to climatic risks and water scarcity, both due to the lack of precipitations and high evapotranspiration. The increase in temperature and the variability of rainfall patterns with more frequent, prolonged, and severe droughts present a risk of significant impacts on production systems. These climate risks may reduce productivity, and family farmers' income, resulting in deterioration of target population livelihoods and ecosystems. The need for water for crops and animals is increasing in a context already characterized by water scarcity and where access to water for human consumption still has ample gaps.	High	Moderate
Mitigations: Project will invest in climate change adaptation, environmental recovery, and the conservation of areas essential for the hydrological functioning of the Piauí and Canindé watershed, social technologies for capturing, storing, and recycling water,		

	1	
and supporting the adoption of agroecological practices to		
increase productive systems' resilience.		
Project Scope	Moderate	Low
Project Relevance		No risk envisaged - not applicable
No relevant risk for the project's objectives and interventions being not fully aligned with IFAD's or the country's development priorities. The Project corresponds to the central challenges of production and access to services for the rural poor, and the design is also aligned with state policies and priorities. Besides, PSI has a participatory approach that will allow ownership, relevance, and alignment with target groups' needs and priorities		
Technical Soundness	Moderate	Low
: There is a low to moderate technical risk in implementation due to the current capacities of state-level public institutions as Project activities require strong coordination and integrated planning.	Moderate	Low
Mitigations:		
i) Designing the Project based on lessons learned from PVSA and IDB projects in the Brazilian Northeast (1633/OC-BR, 5440/OC-BR, 4723/OC-BR, 4732/OC-BR, ATN/LC-17432-BR). PSI is highly robust also based on IFAD's and IDB's solid technical experience. ii) Establishing effective management and coordination structure. iii) The Project includes an institutional strengthening component of SEMAR, SAF, and EMATER. iv) Building alliances with third-party suppliers of technical assistance to producers and communities, which are very common in IFAD projects in Brazil and have achieved excellent results in innovation and technical quality.		
Institutional Capacity for Implementation and Sustainability	Substantial	Moderate
Implementation Arrangements	Substantial	Moderate
Risk: i) The execution of the Project by several government entities	Substantial	Moderate
and organizations of rural producers (who manage the beneficiaries' investment plans) is the main risk identified. If	Substantial	inouel ate

there is no adequate coordination between the key institutions, execution can be delayed and the technical quality of the Project products affected. ii) There is also a risk that the capacities of the project executing agency are insufficient for adequate and effective Project management, generating delays and lower execution quality. iii) For some jobs, such as technical assistance and provision of specialized services, as in the project's water component, there is a risk of a lack of qualified personnel in the state. iv) Lack of clarity in institutional responsibilities could delay the execution of water and sanitation works and compromise their proper operation and maintenance.		
Mitigations:		
i) Establishing a Project Management Unit (PMU) in SEPLAN, which will be responsible for the general Project coordination and management. This PMU will coordinate planning, financial management and implementation, and will report on the technical and financial evolution of the Project. Each executing institution with signed investment plans shall continuously monitor their implementation by rural organizations. ii) Establishing a Coordination Committee made up of representatives from the PMU and the operational teams of SAF, SEMAR, and INTERPI that will meet monthly to coordinate Project communication activities, the planning of community actions, review the progress in the Annual Operational Plan, review environmental and social aspects, among other themes. iii) The institutional strengthening of component 3 will offer training and capacity building and, when necessary, the PSI may bring in technical personnel from other states, as the PVSA did. IFAD grant projects, such as DAKI-Semiárido Vivo, will also provide training to teams, mainly TA, for climate change adaptation practices and approaches. iv) Cooperation agreements will be signed with each municipality in which the water and sanitation type of works; training and technical assistance will be provided to community organizations and beneficiary families to ensure adequate management, operation, and maintenance of the project investments.		
Monitoring and Evaluation Arrangements	Moderate	Low
Risk:	Moderate	Low

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The risk of poor M&E performance is considered low because PVSA has built a strong M&E capacity, based on which PSI will improve and develop the necessary systems. i) As the execution of the Project will take place in a decentralized manner (by several entities of the public administration), the task of monitoring physical progress will be more complex, which may result in information loss. ii) The Project may have difficulties in composing a specialized M&E team to work at the PMU, as well as in the PMUs of the co-executors, both in the state's professional staff and in hiring specialist consultants.		
Mitigations:		
i) IDB has prepared a robust M&E Plan, which defines key aspects and methodologies for monitoring and evaluating PSI results. This plan will be updated by the M&E team at the beginning of the PSI execution, to include the monitoring arrangement to guarantee the fluidity of information between the bodies responsible for implementing the Project and define each professional's roles. ii) Although each co-executing entity will be responsible for monitoring its activities, SEPLAN will consolidate the M&E data of the project as a whole. iii) The SIGMA, a system used by the SAF team for the World Bank Project (Pillars of Growth - Pilares do Crescimento), will be used, adapted, and made available online for the co-executors to manage information. There is a budget planned for the system improvement and this will be an important legacy for the state. iv) Strengthening the M&E team's capacities in the context of developing the institutional capacities of key state entities.		
Project Financial Management	Substantial	Low
Project Organization and Staffing	Substantial	
Risk:		
Financial team from the Project Management Unit (PMU) with limited experience in the financial management of IFAD and IDB funded projects, resulting in limited ability to fulfil the functional needs of the Project	Substantial	Moderate
Mitigations:		
Provide training of the financial team, with the support of IFAD and IDB, in management processes for the use and reporting of external funds		

Project Budgeting	Substantial	Moderate
Risk: SEPLAN is the state entity that leads the policies related to external financing with multilateral agencies and will be the main executing entity. SEPLAN may have little fiscal margin to provide counterpart budget and funds on time.	Substantial	Moderate
Mitigations: IFAD and IDB teams will ensure a strong commitment of SEPLAN to the Project and its articulation with SEFAZ for ensuring the allocation of sufficient counterpart financial resources for Project implementation Project Funds Flow/Disbursement Arrangements	Substantial	Moderate
Risk:	Substantial	Moderate
The State Government will maintain a USD denominated bank account in order to receive IFAD loan funds. The parri passu mechanism will be implemented for the IDB-IFAD cofinanced components. Beneficiary organizations, which will manage resources and implement investment might have weak capability around management of resources, are not able to submit timely and quality investments plans and financial reporting which might delay implementation.	Substantial	Moderate
Include definition of parri passu arrangement in the Program Operating Regulations. Financial reporting and accountability mechanism of implementing organizations will be clearly established in Program Operating Regulations and a model agreement will be prepared to be signed with the organizations clearly stating responsibilities and mechanisms to be applied. Technical assistance will be provided by IDB to implement the requirements as per Program Operating Regulations and agreements signed.		
Project Internal Controls	Substantial	Low
Risk:	Substantial	Low

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The project will have an appropriate organizational structure, procedures, manuals, systems, established workflows and staff responsibilities, segregation of duties, chart of accounts, asset control, and audit functions. The area that will require special attention is the supervision of the funds transferred to rural organizations. If these organizations fail to submit timely and adequate accounts to SAF for the resources transferred, execution may be delayed		
Mitigations:		
The preliminary Program Operating Regulations were elaborated and will be further developed to ensure adequate support and supervision of rural organizations. Key aspects will be clearly establishing oversight responsibilities of project staff and mechanism of supervision; capacity-building plan for rural organizations, disbursement and reporting procedures, and external auditors' review of rural organization transactions to ensure a continuous improvement of rural organizations' management capacities for the adequate use of Project funds.		
Project Accounting and Financial Reporting	Moderate	Low
Risk: The accounting policies used in the State system and acceptable and in line with international standards. The State financial management system is reliable and suitable for operations; however, it does not fully comply with IFAD reporting requirements and might lack the capability to produce the management reporting needed for proper decision making by the project team	Moderate	Low
Mitigations:		
The project will implement a complementary financial system to allow for monitoring of budget and execution by funding source component and category which generates reporting as required by IFAD and IDB.		
Project External Audit	Low	Low
Risk:		
The IDB is responsible for the fiduciary oversight of the project. The external audit of the project will be carried by an external firm acceptable to the IDB (regional audit courts responsible for	Low	Low

audits at state level are not accredited by the World bank). As per the cooperation agreement audited financial statements will be shared by IDB to IFAD no later than 6 months after end of fiscal year. Mitigations:		
No measures		
Project Procurement	Moderate	Low
Legal and Regulatory Framework	Moderate	Low
Risk:		
The new federal regulatory framework for tenders and administrative contracts (Law no. 14.133/2021), establishes important changes that will have direct repercussions on State public Procurement. Considering the new law will have a mandatory application from April 2023, there is a risk of possible interruptions and delays in the project procurement execution. In addition, the risk linked to changes and innovations brought by the new legislation is also highlighted, which can directly impact the development of the Project as the teams may find it difficult to assimilate and implement the changes at the appropriate time. From the data extracted on the PEFA program website (Public Expenditure and Financial Accountability), it is also possible to identify the risk related to the weaknesses of public access to information on purchases and contracts, which can generate gaps for irregular practices, distrust of the legitimacy of activities, and questioning by the control bodies.	Moderate	Low
Mitigations: To reduce the risks inherent to the changes brought by the new regulatory framework, it is recommended that the conditions and methods peculiar to the selection and contracting contained in the IFAD and IDB norms, when applicable, are indicated in the Grant Agreement, and their use is subject to a favorable opinion from the legal body of the grantee prior to the execution of said Agreement. Providing training and retraining on the rules applicable to the personnel involved in procurement activities and continuous monitoring of the Project's procurement team regarding the changes in the new law are also		
strongly recommended. Accountability and Transparency	Low	Low

Risk:		
In terms of accountability, the absence of clear protocols in the National systems can lead to failures in the direction of demands and, consequently, impact the investigations and solving any irregularities, with a potential risk of questioning the legitimacy of some decisions taken under an apparent conflict of interests. The inexistence of a 2-tiered system to handle complaints can generate a lack of exemption in the evaluation, mistaken conclusions and/or ineffective treatment of the information, directly impacting the necessary corrective measures and affecting the reputation, and culture of the Project.	Low	Low
Mitigations:		
i) implement specific protocols for receiving/handling complaints that include general and exception rules, dissemination, training, and communication plans, as well as non-retaliation policies against whistle-blowers, among others; ii) adopt a 2-tiered system for handling complaints with rules well defined in a specific manual; iii) implement an ethics and compliance council to deliberate on complaints; iv) adopt the practice of conducting prior research in procurement/contracting activities (third party due diligence) through consultation of federal and state debarred lists and other relevant tools.		
Capability in Public Procurement	Moderate	Moderate
i) Hiring according to IADB guidelines and procedures is unusual for the state government (except for SAF, the executing agency of PVSA) and needs specific capabilities in public procurement, although executing agencies already have professionals with experience in biddings of this nature. ii) Acquisitions will be carried out by several government entities and by rural organizations that will receive, funds for the implementation of PAPs and BP have to carry out a large volume of contracts.	Moderate	Moderate
Mitigations:		
i) Provide training and retraining on the rules applicable to the personnel involved in procurement activities. ii) Establish a Procurement Management sector at the PMU to coordinate the procurement issues and carry out the primary and more complex		

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selection and acquisition processes, and coordinate the operations on the topic of acquisitions with the entities involved in Project execution. iii) The PSI should provide training and retraining on the applicable rules for all professionals involved in procurement activities, including producer organizations		
Public Procurement Processes	Moderate	Low
Risk:		
Procurement processes follow a fragmented flow between different sectors of the executing agency, showing a low degree of communication and interaction between those involved, especially regarding the planning phase of activities. This can lead to a lack of understanding of the procurement and contracting processes, problems with specification and identification of needs, difficulties in choosing the applicable method, adoption of unrealistic plans, and non-compliance with deadlines for each process, among others. Such risks can severely impact the efficiency and quality of the Project's procurement and contracting activities. Lack of knowledge about IADB's procurement rules represents a risk that can lead to delays and failures in the development of activities in the area.	Moderate	Low
i) The Project shall adopt participative and integrated planning of procurement involving its coordination and the technical and financial area; ii) procurement and contracting flows and procedures will be clearly described in the Program Operating Regulations Manual; iii) the project procurement team will be trained in IADB guidelines which are in line with IFAD's.		
Environment, Social and Climate Impact	Substantial	Moderate
Biodiversity Conservation		Low
Risk: The PSI is within the Caatinga biome, which, despite the adverse conditions, presents great biodiversity, with a high rate of fauna and flora endemism. Changes in the water regime may affect protected and/or endemic species of both fauna and flora.	Moderate	Low
Mitigations:		

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Mitigations: i) The Project design has already included the prepared and disclosed preliminary Strategic Environmental and Social Impact Assessment. ii) Carrying out studies of the biotic environment, surveying the existing fauna and flora, and proposing periodic monitoring and rescue programs for endangered species. ii) Implementing activities to improve family farmers' productivity and income exclude critical habitat areas. iii) In addition, in line with IDB policies, the PSI will not be able to carry out any activities that cause significant conversion or degradation of natural habitats.		
Resource Efficiency and Pollution Prevention	Substantial	Moderate
i) The development of productive activities generate the risk of soil degradation, loss of forest cover, deforestation, burning, contamination of soil and water, and the generation of solid/liquid waste. ii) The lack of proper sanitation and sewage treatment is a leading cause of pollution in the project area. iii) The high concentration of salt in soils refers to the natural process of salinization of surface and ground waters, a characteristic of the Project area. The use of high salinity water can lead to a rapid deterioration of soil conditions	Substantial	Moderate
i) The Project will mitigate these possible risks through fostering agroecological practices (organic fertilizer, water for reuse, recovery of degraded areas, among others), actions to strengthen public institutions and the Piauí-Canindé river basin committee itself, and activities aimed at training and environmental education for fostering ecosystem conservation. PSI will help communities (particularly quilombola) obtain land titling, strengthening incentives for them to invest in conservation practices. Besides, the project will offer financial literacy to producers receiving land ownership to ensure land is used responsibly and to beneficiaries' maximum value creation and protection. ii) The Project will invest in basic sanitation infrastructures, including individual systems for treating household sewage, greywater reuse systems, and green pits. iii) Unlike other identified risks, this is a permanent one. Still, it can be mitigated by implementing technologies to desalinate well water and other water sources and periodically monitor the		

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characteristics of irrigated soil. Besides, the project will		
constantly monitor water quality, particularly in the context of		
supervision missions and ad hoc implementation support		
missions, in accordance with national standards.		
Cultural Heritage		No risk envisaged - not applicable
There is no risk the Project may cause significant degradation of		
cultural or physical resources, including threats to resources of		
historical, religious, or cultural importance or their loss.		
Indigenous People	Low	Low
Risk:		
There is no risk the Project may have a significant physical,		
social, or economic negative impact on indigenous peoples, or	Low	Low
that it threatens resources of historical or cultural importance to		
them or the loss of these resources. Indigenous peoples will not		
be adversely impacted by PSI actions.		
Mitigations:		
i) Project eligibility/exclusion criteria prohibit the acquisition or		
restriction of land use in areas of indigenous and traditional		
communities. ii) The Environmental and Social Management		
Framework (ESMF) will include a Plan for Disclosure and		
Public Consultations, contemplating the participation of		
quilombola, indigenous and other traditional communities,		
informing about the Project and location of proposed		
interventions in the communities, reporting on the activities and		
location of any intervention in the area bordering the		
demarcated Territory. iii) The ESMF will also include a Social		
Communication and Community Participation program that		
respects and includes forms of documenting and means of		
communication accessible and adequate to the cultural		
specificities of indigenous peoples and traditional communities		
of the Project area.		
Labour and Working Conditions	Moderate	Low
Risk:		
Risk that the Project may result in abusive labor practices (for	Moderate	Low
example, forced or child labor), cases of gender violence,	100001000	
discriminatory and unsafe/unhealthy working conditions for		
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those employees of the Project, including third parties and large suppliers.		
Mitigations:		
All contracts with contractors, suppliers, and third parties to be financed with IFAD funds will include provisions that prohibit child labor and promote decent work. The Project will recruit a social specialist for the PMU. An action plan for gender equality will also be developed, examining measures to prevent and combat gender-based violence.		
Community Health and Safety		No risk envisaged - not applicable
Risk: There is no risk the Project will have adverse effects on the health and safety of the community.		
Physical and Economic Resettlement		No risk envisaged - not applicable
The Project's intervention should not cause the resettlement of families.		
Greenhouse Gas Emissions	Substantial	Moderate
Risk: The degradation of the Caatinga biome due to unsustainable agricultural practices could lead to rising greenhouse gas (GHG) emissions. The setbacks in environmental policy and control in recent years point to a tendency for increased emissions.	Substantial	Moderate
Mitigations:		
PSI's components of environmental recovery aim to contribute to the recovery and conservation of water resources in the Piauí-Canindé river basin through actions such as the recovery of riparian forests and environmental revitalization of springs through reforestation with native seedlings. These activities will reduce GHG emissions. In fact, they will even sequester carbon.		
Vulnerability of target populations and ecosystems to climate variability and hazards	High	Substantial
Risk:		
i) In the semi-arid region, variations of the usual rainfall pattern in the semi-arid region are somewhat frequent. This factor	High	Substantial

influences the water availability and puts the communities' ability to maintain water supply for drinking and other uses at risk. ii) According to the Drought Monitoring System of the North-eastern Brazil, the state of Piauí has a wide range of drought intensity both in the short and long term: from low-intensity droughts to extreme droughts. Projections indicate that, for the next 30 years, the average increase in temperature in the region will be between 0,50 and 1,50C. In the Project area, drought is the main climate threat and, from 2012 to 2018, the region has faced the most severe and prolonged drought in a hundred years, demonstrating the high vulnerability of the populations and their production systems to climate variability and hazards.		
Mitigations:		
i) This possible risk can be prevented or mitigated through measures focused on sustainable water management and access, mainly for human consumption, agricultural production, and the safety of children. The installation of small dams may help regulate the flow of rivers and recharge the water table. ii) IDB has conducted a climate change and disaster analysis that concluded that the drought and flood risk management plans to be financed by PSI will ensure adequate risk mitigation measures.		
Stakeholders	Moderate	Low
Stakeholder Engagement/Coordination	Low	Low
There is a low risk that the main players invited to be part of the Project show little interest or commitment toward the project's objectives and activities. Some civil society organizations represent different interests relevant to the Project - Movement of Landless Workers (MST), COOTAPI, and FETAG of Oeiras. The design team met their representatives as part of the consultation process for this Project's concept note. The objectives and approaches of the Project align with the interests of these organizations. Also, IDB, in line with its Environmental and Social Policy Framework (ESPF) has carried out a public consultation process.		Low
Mitigations:		

SEPLAN coordinates the participation of interested sectorial institutions (SEMAR, SAF, EMATER, INTERPI, IDEPI) both during Project design and implementation. At the community level, the Project will implement a participatory process to develop Productive Adaptation Plans (PAP) and Business Plans (BP) to ensure the participation and representation of the needs and aspirations of the different groups in defining the specific supports to be offered by the Project. PSI will also establish continuous communication, awareness-raising, and coordination with the many partners at all levels (local, state, and federal) starting at the project design stage, and activities on visibility aimed at promoting and clarifying potential outcomes of project activities, both for target groups and partners involved in implementation.		
Stakeholder Grievances	Moderate	Low
Risk: Project implementation may entail the submission of complaints by several involved or impacted groups, thus affecting the continuity of activities and the established schedule.	Moderate	Low
Mitigations: The Project will incorporate a clear and effective mechanism for grievance/complaints redress, to be designed in a participatory way in line with IDB methodologies and guidelines (Mecanismo de Resolução de Queixas - MRQ). During the design, a public consultation was conducted with stakeholders. The procedure includes mechanisms to manifest the claim or complaint, response time, and resolution spheres. This mechanism shall be easily accessible to the population and have a speedy resolution, ensuring that submitted complaints are quickly reviewed and situations are mutually agreed upon in a satisfactory way for the parties involved.		