



**PROJECT DESIGN DOCUMENT  
FOR PROJECT ACTIVITIES  
Version 1.0**



**Ajuricaba Project Activity**



<b>Title of the project activity</b>	<b>Ajuricaba Project Activity</b>
<b>Version number of the PDD</b>	01
<b>Completion date of the PDD</b>	
<b>Project participant(s)</b>	Planck E
<b>Host Country</b>	Brazil
<b>Other Involved Countries</b>	
<b>Sectoral scope</b>	18
<b>Ex-Ante annual average emission reductions</b>	1,031,690

## SECTION A. Description of the project activity

### A.1. Goals & Description of project activity

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Ajuricaba is the name of a native Brazilian from the Manau tribe who lived near the Amazon River in the 18th century, famous for his audacity and victories in resisting contact with the expeditionaries of the time. Legend has it that when the moment was approaching when he would finally be captured, Ajuricaba threw himself into the waters of the Amazon, preferring death to defeat.

In March 2001, the Ajuricaba Expedition left Tabatinga-AM. The purpose of the expedition was to investigate on the spot signs of isolated Indians detected by airplanes. Also, the objective was to verify the existence of anthropic actions on the periphery of the indigenous land and to detect possible pressures to which the natives of the region are subjected. Since Sydney Possuelo created the department of isolated indigenous peoples, its policy is not to make contact, but to protect their surroundings and guarantee theirs *modus vivendi*.

In May 2020, we again borrowed the name and courage of the hero of the Manau tribe. Ajuricaba is the name of the first Zero2Nature project activity to treat COVID19 as a diseconomy. The objective of the **Ajuricaba Project Activity** is the generation of Diseconomy Traded Units-DTUs through the implementation of ICU beds in the Amazon region.



If we approach the coronavirus (SARS-CoV-2) as a diseconomy, we can consider that its effective and accounted removal -through objective evidence- carries with it a tangible value and, therefore, an income generator.

The **Ajuricaba Project Activity** goes far beyond its social and ecological function. Bringing the tangibility of diseconomies to its application in COVID19 removal projects - a diseconomy that most afflicts us, under any and all scrutiny- the **Ajuricaba Project Activity** creates the bridge for a smoother resumption of the world economy, creating a business environment where the waste produced by an economic productive cycle is raw material for the diseconomic productive cycle, through its removal. The post-pandemic Earth opens up to Epiconomy.

The **Ajuricaba Project Activity** deals with the implementation of **1800** ICU units, in remote communities of the Amazon region, with a focus on preserving life and health for both the riparians and indigenous populations.

## **A.2. Location of project activity**

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Western Amazonian Region

### **A.2.1. Complete Address**

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In order to guarantee the best logistics and control over the entire equipment delivery process, **Ajuricaba Project Activity** establishes 18 delivery points, in the western Amazonian region. They are:

- |                      |                   |                 |
|----------------------|-------------------|-----------------|
| • Tabatinga-AM       | Manaus-AM         | Itacoatiara-AM  |
| • Tefé-AM            | Lábrea-AM         | Humaitá-AM      |
| • Coari-AM           | Parintins-AM      | Rio Branco-AC   |
| • Cruzeiro do Sul-AC | Porto Velho-RO    | Ariquemes-RO    |
| • Ji-Paraná-RO       | Rolim de Moura-RO | Cacoal-RO       |
| • Vilhena-RO         | Boa Vista-RR      | Rorainópolis-RR |



#### A.2.1.1. Street/Number/County

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Address	Zip-code	City	State	Country
Avenida Amizade, 1770	69640-000	Tabatinga	AM	Brazil
Rua Olavo Bilac, 406	69470-000	Tefé	AM	Brazil
Rua 5 de Setembro, 1000	69460-000	Coari	AM	Brazil
Avenida Brasil, 2971	69036-110	Manaus	AM	Brazil
Rua Ville Roy, 2051	69830-000	Lábrea	AM	Brazil
Praça Eduardo Ribeiro, 2052	69151-271	Parintins	AM	Brazil
Rua Dr Luzardo Ferreira Melo 2225	69100-000	Itacoatiara	AM	Brazil
Rua 13 de Maio, 177	69800-000	Humaitá	AM	Brazil
Rua Coronel Alexandrino, 301	69909-730	Rio Branco	AC	Brazil
Rua Rui Barbosa, 67	69980-000	Cruzeiro do Sul	AC	Brazil
Rua Dom Pedro II, 8260 – Centro	76800-000	Porto Velho	RO	Brazil
Av. Tancredo Neves, 1706 – Centro	76870-000	Ariquemes	RO	Brazil
Av. Dois de Abril, 1701 – Urupá	76900-000	Ji-Paraná	RO	Brazil
Av. João Pessoa, 4478 – Centro	76940-000	Rolim de Moura	RO	Brazil
Rua Anísio Serrão, 2168 – Centro	76963-804	Cacoal	RO	Brazil
Centro Adm. Sen. Dr. Teotônio Vilela, s/n	76970-000	Vilhena	RO	Brazil
Rua General Pena Brasil, 1011 - Bairro São Francisco - Palácio 9 de Julho	69305-330	Boa Vista	RR	Brazil
Rua Pedro Daniel da Silva, 51	69373-000	Rorainópolis	RR	Brazil

#### A.2.1.2. City/State or Province/Country.

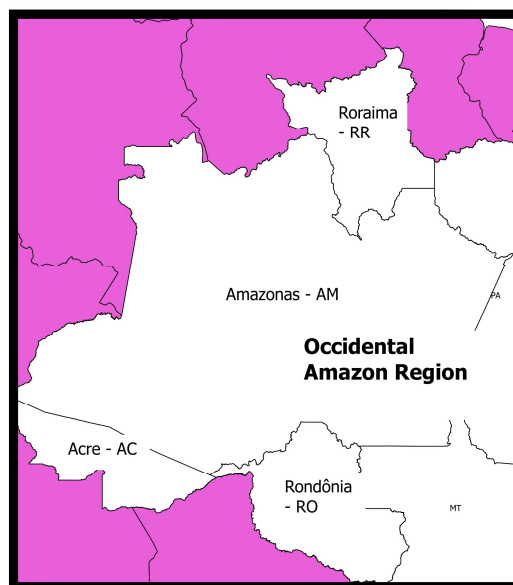
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All the cities are in Brazil. To cities and state, please refer to table in item A.2.1.1.



### A.2.2. Geographical location of PA

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#### **A.2.2.2. Environmental Conditions of PA**

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#### **Environmental Conditions before COVID19**

As per the Organization for the Protection of Native Amazonian Health – OPNAH, many of the Amazonian people (indigenous and riparians) of the Brazilian Amazon Rainforest are at risk of extinction if the necessary attention is not provided. The people are afflicted with a variety of severe diseases including typhoid, dysentery, influenza, malaria, dengue, minimata, tuberculosis, yellow fever, and measles. Without proper treatment, many of these diseases have fatal consequences, and, much of the time, adequate treatment does not reach these groups.

There are multiple causes for the indigenous health crisis. The diseases were first introduced to the indigenous people through the influx of foreigners from Europe and Africa in the 1500s when Brazil was Portugal's colony. As intrusion into the forest has continued, logging practices have also contributed to the propagation of disease. Minimata disease, for example, affects the nervous system causing uncontrollable shaking, muscle wasting and birth defects. The disease is produced by methyl-mercury poisoning, a toxic substance used to separate gold and ore. In a recently performed study, thirty percent of small-scale Brazilian gold miners, referred to as "garimpeiros" had mercury levels in their body above the World Health Organization's standards. Mining processes have produced other health risks as well. In addition to methyl-mercury, cyanide released by large-scale mining companies also serves as health risks to Amazonian groups. The seriousness of the issue can be demonstrated by the 1980s discovery of gold in the northern Brazilian state of Roraima. According to Survival International, a London-based indigenous support group, within seven years of contact, 20% of the Yanomani population of the state of Roraima died from contact-related illness and disease.

More indirect health problems have also resulted from contact with outsiders: particularly missionaries, rubber extractors, gold miners and logging companies. One of the most striking findings of the Ajuricaba Expedition concerns the degradation of indigenous culture as directly proportional to the period of contact with civilization. Due to the absolute discrepancy between forestry and civilized life, the insertion of the indigenous people in society causes harm ranging from the loss of teeth - due to the unrestrained consumption of sugar and alcohol - to the loss of identity, self-respect, sense of belonging. Furthermore, communities in the Amazon region are constantly exposed to illegal miners, illegal loggers and drug dealers.

The indigenous people are especially vulnerable to disease because of their aboriginal tendencies. According to the Pan American Health Organization, the tuberculosis rate



was ten times Brazil's national average. In 1996, malaria was determined to be the main cause of death, and infant mortality rates were three times the national average.

Basic health care in most regions of the Amazon is performed within the tribes themselves. Societies typically rely on the traditional medical practices of each individual tribe as their prime source of care. The second, and perhaps more distinctive problem, seems to be the fact that effective healthcare is often too distant. There is a complexity related to indigenous traditional treatment: it works better because of the faith that the natives are able to have in its powers. Thus, in creating any health care plan to aid in indigenous life, it is incredibly important to integrate traditional beliefs and practices with any scientific treatment.

The current key players in providing additional healthcare to the region are the government funded non-profit organizations, the Brazilian government itself, and other non-affiliated humanitarian groups.

The Brazilian Amazon Region occupies 4,871,500 km<sup>2</sup> (57.23% of Brazilian territory) and has the following characteristics: the largest fluvial complex in the world, the biggest sedimentary basin on the planet, the principal ecosystem of the biosphere, the greatest biodiversity of the planet and the leading potential for energy generation in Brazil. Thus, the region faces the difficult challenges in implementing a healthcare system that is effective in performing disease surveillance, control and providing care, especially because of the great distances that this region spans and the difficulty of access to services for the population. The Brazilian Amazon Region represents 67% of the area of the entire Pan-Amazon region.

In a report to the Brazilian government dated 9 September 1913, the sanitarian doctor Oswaldo Cruz recommended the construction of a central hospital and a research institute in Manaus, state of Amazonas (AM) health care facilities at the Madeira-Mamoré Railway and health units/hospitals in Coarí-Fonte Boa, in São Felipe by the Juruá River, in Vila Seabra by the Tarauacá River, upstream along the Embira River and in Rio Branco, Abunã, Xajunrí and Porto do Acre, and proposed quinine therapy facilities in Boca do Acre, in Lábrea by the Purus River, in Sena Madureira by the Yaco River and in Santa Izabel by the Negro River. However, this plan is certainly now outdated. In his conclusion, Oswaldo Cruz wrote: "If the plan for the sanitation campaign is implemented along the above lines, I can safely state that the capital obstacle that holds back the vertiginous progress to which the valley of the world's greatest river is destined will disappear and thus one of the richest, if not the very richest asset of Brazil, will be delivered to civilization. It is in the hands of the government to accomplish this".

Today, the Brazilian Amazon Region not only has the abovementioned challenges, but also has the following problems of paramount importance: (i) disorderly occupation, (ii) uncontrolled deforestation, (iii) risk of desertification and (iv) international

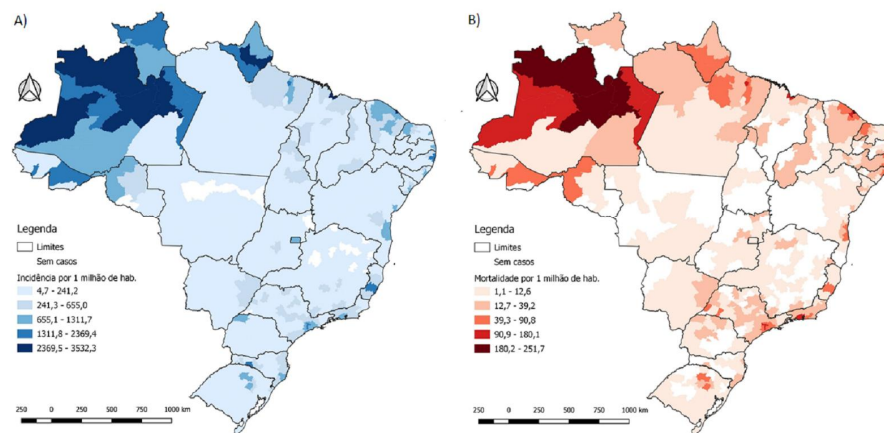


covetousness. The Brazilian Amazon Region has borders with Bolivia, Peru, Ecuador, Colombia, Venezuela, Guyana, Suriname and French Guyana, with a total length of over 16,886 km, which people cross accompanied by domestic animals.

## Environmental Conditions during COVID19

Brazil registered 188,974 cases of coronavirus until 7 pm on May 13, 2020 and confirmed the recovery of 78,424 (41.5% of the total) patients. The information was updated and passed on by the State Health Secretariats across Brazil.

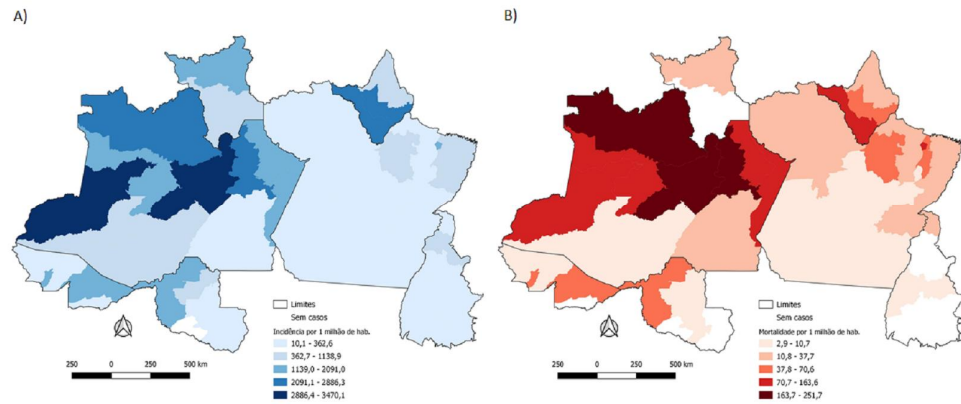
Until then, there were 13,149 deaths caused by the disease, which keeps the fatality rate at 7%, considering the total number of confirmed cases. As of May 13, 2020, 2,050 deaths were under investigation.



Incidence (A) and mortality (B) coefficients by COVID19 (per 1,000,000 inhabitants) by health regions. Brazil - May 8, 2020.

Source: Brazilian Health Surveillance Secretariat / Ministry of Health.

As can be seen, the region most affected by COVID19 in Brazil, is precisely the one with the most difficult access where, in addition to a huge Amazonian population already suffering all sorts of negative survival pressures, is also extremely susceptible to coronaviruses.



Source: Brazilian Health Surveillance Secretariat / Ministry of Health.

Incidence (A) and mortality (B) coefficients by COVID19 (per 1,000,000 inhabitants) by health regions of Northern Brazil. May 8, 2020.



**Table 1 – Population / COVID19 Cases and Deaths**

Sub Region (City)	Estimated Population	COVID19 Confirmed Cases		COVID19 Confirmed Deaths	
		8/5/2020	14/5/2020	8/5/2020	14/5/2020
	<b>7,400,518</b>				
<b>AMAZONAS State</b>	<b>4,144,597</b>	<b>10099</b>	<b>17181</b>	<b>806</b>	<b>1237</b>
<b>Amazonas West</b>	<b>514,806</b>				
<b>Alto Solimões</b>	<b>251,867</b>	<b>874</b>	<b>1487</b>	<b>37</b>	<b>84</b>
Amaturá	11,536		154		4
Atalaia do Norte	19,921		2		0
Benjamin Constant	42,984		92		10
Fonte Boa	17,609		74		6
Jutaí	14,317		45		1
Santo Antônio do Içá	21,602		357		8
São Paulo de Olivença	39,299		226		3
Tabatinga	65,844		425		45
Tonantins	18,755		112		7
<b>Triângulo</b>	<b>125,121</b>	<b>241</b>	<b>658</b>	<b>12</b>	<b>33</b>
Alvarães	16,041		7		3
Japurá	2,755		10		0
Juruá	14,712		1		0
Maraã	18,224		44		0
Uarini	59,849				
Tefé	13,540		596		30
<b>Regional Juruá</b>	<b>137,818</b>	<b>126</b>	<b>160</b>	<b>1</b>	<b>1</b>
Carauari	28,294		131		1
Eirunepé	35,273		19		0
Envira	20,033				
Guajará	16,678		8		0
Ipixuna	29,689				
Itamarati	7,851		2		0
<b>Amazonas Central</b>	<b>3,006,586</b>				
<b>Rio Negro e Solimões</b>	<b>297,949</b>	<b>1003</b>	<b>1865</b>	<b>75</b>	<b>103</b>
Anamã	13,614		29		0
Anori	21,010		109		1
Beruri	19,679		57		5
Caapiranga	13,081		12		1
Coari	85,097		439		35
Codajás	28,637		16		1
Manacapuru	97,377		1150		56
Novo Airão	19,454		53		4



Sub Region (City)	Estimated Population	COVID19 Confirmed Cases		COVID19 Confirmed Deaths	
		8/5/2020	14/5/2020	8/5/2020	14/5/2020
<b>Amazonas Central</b>					
<b>Manaus, Entorno e Alto Rio Negro</b>	<b>2,576,049</b>	<b>6840</b>	<b>11108</b>	<b>613</b>	<b>899</b>
Autazes	39,565		214		21
Barcelos	27,502		74		6
Careiro	37,869		271		6
Careiro da Várzea	30,225		34		0
Irlanduba	48,296		289		23
Manaquiri	32,105		62		5
Nova Olinda do Norte	37,378		45		2
Presidente Figueiredo	36,279		204		9
Rio Preto da Eva	33,347		279		7
São Gabriel da Cachoeira	45,564		219		10
Santa Isabel do Rio Negro	25,156		7		1
Manaus	2,182,763		9410		809
<b>Purus</b>	<b>132,588</b>	<b>151</b>	<b>349</b>	<b>1</b>	<b>4</b>
Boca do Acre	34,308		168		1
Canutama	15,629		22		0
Lábrea	46,069		24		0
Pauini	19,426		1		0
Tapauá	17,156		134		3
<b>Amazonas East</b>	<b>623,205</b>				
<b>Baixo Amazonas</b>	<b>250,599</b>	<b>524</b>	<b>866</b>	<b>41</b>	<b>61</b>
Barreirinha	32,041		60		1
Boa Vista do Ramos	19,207		29		0
Maués	63,905		222		20
Nhamundá	21,173		25		1
Parintins	114,273		530		39
<b>Médio Amazonas</b>	<b>172,997</b>	<b>298</b>	<b>545</b>	<b>21</b>	<b>41</b>
Itacoatiara	101,337		308		33
Itapiranga	9,148		51		2
São Sebastião do Uatumã	14,020		16		0
Silves	9,171		58		3
Urucará	16,256		80		2
Urucurituba	23,065		32		1
<b>Rio Madeira</b>	<b>199,609</b>	<b>42</b>	<b>143</b>	<b>5</b>	<b>11</b>
Apuí	21,973		19		0
Borba	41,161		52		6
Humaitá	55,080		13		0
Manicoré	55,751		23		2
Novo Aripuanã	25,644		36		3



Sub Region (City)	Estimated Population	COVID19 Confirmed Cases		COVID19 Confirmed Deaths	
		8/5/2020	14/5/2020	8/5/2020	14/5/2020
<b>ACRE State</b>	<b>881,935</b>				
<b>Baixo Acre e Purus</b>	<b>576,027</b>	<b>964</b>		<b>35</b>	
Acrelândia	15,256				
Bujari	10,266				
Capixaba	11,733				
Jordão	8,317				
Manoel Urbano	9,459				
Plácido de Castro	19,761				
Porto Acre	18,504				
Rio Branco	407,319				
Santa Rosa do Purus	6,540				
Sena Madureira	45,848				
Senador Guiomard	23,024				
<b>Alto Acre</b>	<b>71,429</b>	<b>12</b>		<b>0</b>	
Assis Brasil	7,417				
Brasiléia	26,278				
Epitaciolândia	18,411				
Xapuri	19,323				
<b>Juruá e Tarauacá/Envira</b>	<b>234,479</b>	<b>38</b>		<b>1</b>	
Cruzeiro do Sul	88,376				
Feijó	34,780				
Mâncio Lima	18,977				
Marechal Thaumaturgo	18,867				
Porto Walter	11,982				
Rodrigues Alves	18,930				
Tarauacá	42,567				
<b>Rondônia State total</b>	<b>1,768,225</b>				
<b>Rondônia Porto Velho Region</b>	<b>908,588</b>				
<b>Madeira-Mamoré</b>	<b>634,452</b>	<b>844</b>	<b>1314</b>	<b>31</b>	<b>47</b>
Candeias do Jamari	26,693		13		
Guajará-Mirim	46,174				7
Itapuã do Oeste	10,458		3		
Nova Mamoré	30,583		3		
Porto Velho	529,544		1295		40



Sub Region (City)	Estimated Population	COVID19 Confirmed Cases		COVID19 Confirmed Deaths	
		8/5/2020	14/5/2020	8/5/2020	14/5/2020
<b>Rondônia Porto Velho Region</b>					
<b>Vale do Jamari</b>	<b>274,136</b>	<b>128</b>	<b>154</b>	<b>2</b>	<b>4</b>
Alto Paraíso	21,428		5		1
Ariquemes	107,863		136		
Buritis	39,654		5		1
Cacaulândia	6,230		2		
Campo Novo de Rondônia	14,139		2		1
Cujubim	25,215		2		1
Machadinho D'Oeste	39,991		2		
Monte Negro	15,852				
Rio Crespo	3,764				
<b>Rondônia Central Region</b>	<b>859,637</b>				
<b>Central</b>	<b>343,113</b>	<b>97</b>	<b>124</b>	<b>3</b>	<b>4</b>
Alvorada D'Oeste	14,411		2		
Governador Jorge Teixeira	7,767		4		
Jaru	51,775		21		
Ji-Paraná	128,969		46		3
Mirante da Serra	10,947		11		1
Nova União	6,970				
Ouro Preto do Oeste	36,035		15		
Presidente Médici	18,986				
São Miguel do Guaporé	23,005		2		
Texeirópolis	4,308				
Urupá	11,467		21		
Vale do Anari	11,204		2		
Vale do Paraíso	6,825				
<b>Zona da Mata</b>	<b>135,877</b>	<b>14</b>	<b>19</b>	<b>1</b>	<b>1</b>
Alta Floresta D'Oeste	22,945				
Alto Alegre do Parecis	13,241		4		
Nova Brasilândia D'Oeste	3,052		3		
Novo Horizonte do Oeste	8,538		2		
Parecis	6,074				
Rolim de Moura	55,058		10		1
Santa Luzia D'Oeste	6,495				
<b>Café</b>	<b>172,081</b>	<b>8</b>	<b>40</b>	<b>0</b>	<b>0</b>
Cacoal	85,359		27		
Espigão D'Oeste	32,374		3		
Ministro Andreazza	9,660				
Pimenta Bueno	36,660		3		
Primavera de Rondônia	2,856		5		
São Felipe D'Oeste	5,172		2		



Sub Region (City)	Estimated Population	COVID19 Confirmed Cases		COVID19 Confirmed Deaths	
		8/5/2020	14/5/2020	8/5/2020	14/5/2020
<b>Rondônia Central Region</b>					
<b>Cone Sul</b>	<b>158,113</b>	<b>7</b>	<b>15</b>	<b>0</b>	<b>0</b>
Cabixi	5,312				
Cerejeiras	16,323				
Chupinguaia	11,182				
Colorado do Oeste	15,882				
Corumbiara	7,391				
Pimenteiras do Oeste	2,169				
Vilhena	99,854		15		
<b>Vale do Guaporé</b>	<b>50,453</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Costa Marques	18,331				
São Francisco do Guaporé	20,266				
Seringueiras	11,856				
<b>RORAIMA State</b>	<b>605,761</b>				
<b>Centro Norte</b>	<b>515,366</b>	<b>941</b>	<b>1360</b>	<b>14</b>	<b>34</b>
Alto Alegre	15,510		16		2
Amajari	12,796		13		
Boa Vista	399,213		1189		31
Bonfim	12,409		27		
Cantá	18,335		21		
Mucujáí	17,853		17		
Normandia	11,290		5		
Pacaraima	17,401		71		1
Uiramutã	10,559		1		
<b>Sul</b>	<b>90,395</b>	<b>68</b>	<b>164</b>	<b>0</b>	<b>2</b>
Caracaraí	21,926		12		
Caroebe	10,169		62		1
Iracema	11,950		1		1
Rorainópolis	30,163		60		
São João da Baliza	8,201		7		
São Luiz	7,986		22		



The methodology for calculating the need for ICU beds in the Amazonian western region was extracted from the COVID19 Hospital Impact Model for Epidemics (CHIME), developed by the University of Pennsylvania and adapted, with support from the Panamerican Health Organization, Fiocruz Foundation and Butantan Institute. (<https://covid-calc.org> ) and (<https://penn-chime.phl.io> ).

**Table 2 – Estimated ICU Demand / Estimated Total COVID19 Deaths**

Region	Estimated ICU Demand	Estimated Total Covid19 Deaths
	<b>8207</b>	<b>32573</b>
<b>AMAZONAS State Total</b>	<b>4132</b>	<b>18623</b>
Amazonas West	794	2182
Alto Solimões	388	
Triângulo	193	
Regional Juruá	213	
Amazonas Central	2502	13722
Rio Negro e Solimões	248	
Manaus, Entorno e Alto Rio Negro	2144	
Purus	110	
Amazonas East	836	2719
Baixo Amazonas	336	
Médio Amazonas	232	
Rio Madeira	268	
<b>ACRE State total</b>	<b>1240</b>	<b>3504</b>
Baixo Acre e Purus	810	
Alto Acre	100	
Juruá e Tarauacá/Envira	330	
<b>Rondônia State total</b>	<b>2089</b>	<b>7674</b>
Rondônia Porto Velho Region	1155	4525
Madeira-Mamoré	807	
Vale do Jamari	348	
<b>Rondônia Central Region</b>	<b>934</b>	<b>3149</b>
Central	373	
Zona da Mata	148	
Café	187	
Cone Sul	172	
Vale do Guaporé	55	
<b>RORAIMA State total</b>	<b>746</b>	<b>2772</b>
Centro Norte	635	
Sul	111	



**Table 3 – Parameters for ICU Demand / COVID19 deaths – 30 week simulation**

Location	Sim Options		Cases		Hospital Capacity		Epidemiological Parameters				Clinical Parameters				First Intervention		
Region	Duration Weeks	Start of Simulation	Avg Confirmed Cases Day	Notification Rate	Current ICU Capacity	Occupation Rate at onset of sim	Reproduction rate (R0)	Incubation Period	Infectious Period	Symptomatic cases fraction	Fraction of hospitalized cases	Percentage of ICU usage	Hospitalization period (days)	ICU period (days)	Days before start	Duration of intervention	Social Distancing
Alto Solimões / Triangulo / Juruá	30	14/05/2020	96	7.06%	36	100%	2.75	3.69	3.47	30%	4	25	7	16	10	40	40%
Manaus and Surroundings and Alto Rio Negro / Purus /	30	14/05/2020	536	9.40%	841	100%	2.75	3.69	3.47	30%	4	25	7	16	0	60	50%
Baixo Amazonas / Médio Amazonas e	30	14/05/2020	70	7.36%	42	100%	2.75	3.69	3.47	30%	4	25	7	16	10	40	40%
Acre	30	14/05/2020	108	16.77%	194	100%	2.75	3.69	3.47	30%	4	25	7	16	0	40	40%
Rondônia - Madeira Mamoré, Vale do Jamari, Central (Gov.	30	14/05/2020	66	14.77%	352	80%	2.75	3.69	3.47	30%	4	25	7	16	14	40	40%
Rondônia - Central, Zona da Mata, Café,	30	14/05/2020	8	11.73%	94	80%	2.75	3.69	3.47	30%	4	25	7	16	14	40	40%
Roraima	30	14/05/2020	100	17.02%	100	80%	2.75	3.69	3.47	30%	4	25	7	16	14	40	40%



**Table 4 – Results for ICU Demand / COVID19 deaths – 30 week simulation**

Location	Results of Simulation					
Region	Estimated Deaths	Percentage of Population	Additional ICU needed	ICU reaches full capacity	Peak in cases	% infected at end of 30 weeks
Alto Solimões / Triângulo / Juruá	2182	0.42%	794	FULL	7/6/2020	78.20%
Manaus and Surroundings and Alto Rio Negro / Purus / Rio Negro	13722	0.45%	2502	FULL	2/8/2020	85.96%
Baixo Amazonas / Médio Amazonas e Rio Madeira	2719	0.43%	836	FULL	13/06/2020	80.50%
Acre	3504	0.39%	1240	FULL	9/7/2020	90.22%
Rondônia - Madeira Mamoré, Vale do Jamari, Central (Gov. Jorge Teixeira, Jaru)	4525	0.44%	1155	1/6/2020	24/06/2020	83.09%
Rondônia - Central, Zona da Mata, Café, Cone Sul	3149	0.41%	934	4/6/2020	21/07/2020	89.17%
Roraima	2772	0.44%	746	28/05/2020	23/06/2020	82.67%

As demonstrated here, COVID19 has an immense impact on the western Amazonian region. In an ideal situation, the complete and secure functioning of the health system in the region would demand the implementation and operability of 8.207 ICU units. The **Ajuricaba Project Activity** has as the objective to provide 1.800 ICU units until the end of 2021.



**Table 5 – Municipal Focal points**

State/Region	Mayor - Focal Point	Address	CEP	Phone
<b>Amazonas West</b>				
<b>Alto Solimões</b>				
Amaturá	Joaquim Corado	Av. 21 de Junho, 1746 - Centro	69620-000	97 3463 1150
Atalaia do Norte	Nonato do Nascimento Tenazor	Rua Augusto Luzeiro, 65	69650-000	97 3417 1182
Benjamin Constant	David Nunes Bemerguy	Rua Frei Ludovico, 750 - Coimbra	69630-000	97 3415 5288
Fonte Boa	Goilberto Ferreira Lisboa (Biquinho)	Rua Boulevard de Álvaro Maia, 260A	69670-000	92 99263-9825
Jutaí	Pedro Macario Barboza	Rua 7 de Março, s/n	69660-000	97 3425 1026 / 97 3425 1117
Santo Antônio do Içá	Abraão Magalhães Lasmar	Rua Álvaro Maia, s/n	69680-000	97 3461 1273
São Paulo de Olivença	Paulo de Oliveira Mafra	Avenida Getúlio Vargas, 1414	69600-000	
Tabatinga	Saul Nunes Bemerguy	Avenida Amizade, 1770	69640-000	97 3412 2843
Tonantins	Lazaro de Souza Martins	Rua Leopoldo Peres, s/n	69685-000	97 3464 1323
<b>Triângulo</b>				
Alvarães	Edy Rubem Tomas Barboza	Praça da Liberdade, 329 - Centro	69475-000	
Japurá	Gracineide Lopes de Souza	Avenida Amâncio Barbosa, s/n	69495-000	97 3426 1130
Juruá	Jose Maria Rodrigues da Rocha Junior	Rua Francisco de Paula, 98	69520-000	97 3427 1206
Maraã	Luiz Magno Praiano Moraes	Avenida Castelo Branco 110	69490-000	97 3428 1021
Uarini	Antonio Waldetrudes Uchoa de Brito	Rua 19 de Abril, 1021	69485-000	97 3346 1000
Tefé	Normando Bessa de Sa	Rua Olavo Bilac, 406	69470-000	97 3343 2810
<b>Regional Juruá</b>				
Carauari	Bruno Luis Litaiff Ramalho	Rua André Costa Pereira, 148	69500-000	97 3491 1019
Eirunepé	Raylan Barroso de Alencar	Rua Intendente José Pedro, 244	69880-000	97 3481 1113
Envira	Ivon Rates da Silva	Avenida 5 de setembro S H	69870-000	97 3483 1720
Guajará	Ordean Gonzaga da Silva	Avenida Leopoldo Carlos, s/n	69898-000	
Ipixuna	Maria do Socorro de Paula Oliveira	Rua Varcy Herculano Barros, 252	69990-000	97 3482 1078 / 1075
Itamarati	Antonio Maia da Silva	Rua Boa Vista, 200	69510-000	97 3484 1029
<b>Amazonas Central</b>				
<b>Rio Negro e Solimões</b>				
Anamã	Raimundo Pinheiro da Silva	Rua Alvaro Maia, 38	69445-000	97 3356 1123
Anori	Jamilson Ribeiro Carvalho	Rua 8 dezembro Praça Capital Pedro Silva, 168	69440-000	97 3352 1032
Beruri	Maria Lucir Santos de Oliveira	Avenida Castelo Branco, 100	69430-000	97 3351 0225
Caapiranga	Antonio Ferreira Lima	Praça 28 de Dezembro, s/n	69410-000	92 3232 4039
Coari	Adail Jose Figueiredo Pinheiro	Rua 5 de Setembro, 1000	69460-000	97 3561 4637
Codajás	Abraham Lincoln Dib Bastos	Rua 5 de Setembro, 592	69450-000	97 3353 1977
Manacapuru	Betanael da Silva Dangelo	Praça XVI de julho, 1001	69400-000	92 3361-3037
Novo Airão	Wilton Pereira dos Santos	Avenida João Paulo II, 45	69730-000	



State/Region	Mayor - Focal Point	Address	CEP	Phone
<b>Amazonas Central</b>				
<b>Manaus, Entorno e Alto Rio Negro</b>				
Autazes	Andreson Adriano Oliveira Cavalcante	Rua Francisca Barroncas, s/n	69240-000	
Barcelos	Edson de Paula Rodrigues Mendes	Rua Tenreiro Aranha, 204	69700-000	97 3321 1704
Careiro	Nathan Macena de Souza	Avenida Mário Jorge Guedes da Silva, 391	69250-000	92 3362 1427
Careiro da Várzea	Pedro Duarte Guedes	Avenida José Ribamar Barbosa, s/n	69255-000	92 3369 2203
Irlanduba	Francisco Gomes da Silva	Praça dos Três Poderes, s/n	69405-000	92 3367 1188
Manaquiri	Jair Aguiar Souto	Rua Pedro Pastor, 41	69435-000	92 3363 1067
Nova Olinda do Norte	Adenilson Lima Reis	Rua Triunfo, 711 – Centro	69230-000	92 3318 1232
Presidente Figueiredo	Romeiro Jose Costeira de Mendonça	BR 174 Km 107	69735-000	92 3324 1174
Rio Preto da Eva	Anderson José de Souza	Rua Gov Pimenta Bueno, 242	69115-000	92 3328 1108 / 1137
São Gabriel da Cachoeira	Clovis Moreira Saldanha	Avenida Álvaro Maia, 569	69750-000	97 3471 1324
Santa Isabel do Rio Negro	Araildo Mendes do Nascimento (Careca)	Avenida Danilo Corrêa, s/n	69740-000	97 3441 1000 / 92 3239 0329
Manaus	Artur Virgílio do Carmo Ribeiro Neto	Avenida Brasil, 2971	69036-110	92 3672 1505
<b>Purus</b>				
Boca do Acre	Jose Maria Silva da Cruz (Zeca)	Coronel Assunção, s/n	69850-000	97 3451 2414
Canutama	Otaniel Lyra de Oliveira	Rua Floriano Peixoto, s/n	69820-000	97 3334 1438
Lábrea	Gean Campos de Barros	Rua Ville Roy, 2051	69830-000	97 3331 1362
Pauini	Eliana Oliveira Amorim	Praça Santo Agostinho, 198	69860-000	97 3458 1101
Tapauá	José Bezerra Guedes (Zezito)	Avenida Presidente Castelo Branco 361	69480-000	97 3391 1290
<b>Amazonas East</b>				
<b>Baixo Amazonas</b>				
Barreirinha	Glenio José Marques Seixas	Rua Pref Militão Dutra, 242	69160-000	92 3531 7092
Boa Vista do Ramos	Eraldo Trindade da Silva	Rua Sen José Esteves, 384	69195-000	92 3545 5288
Maués	Carlos Roberto de Oliveira Júnior	Rua Quintino Bocaiúva, 248	69190-000	
Nhamundá	Gledson Hadson Paulain Machado	Rua Furtado Belém, 42	69140-000	92 3534 8113
Parintins	Frank Luiz da Cunha Garcia	Praça Eduardo Ribeiro, 2052	69151-271	92 3533 3077
<b>Médio Amazonas</b>				
Itacoatiara	Antonio Peixoto de Oliveira	Rua Dr Luzardo Ferreira Melo 2225	69100-000	92 3521 1748
Itapiranga	Denise de Farias Lima	Avenida Getúlio Vargas, 159	69120-000	92 3648 6112
São Sebastião do Uatumã	Fernando Falabella	Rua Justino de Melo, 175	69135-000	92 3572 1109
Silves	Aristides Queiroz de Oliveira Neto	Luis Magno Grana, s/n	69114-000	92 3528 2225
Urucará	Enrico de Souza Falabella	Rua Crispim Lobo, 111	69130-000	92 3571 1283
Urucurituba	Jose Claudenor de Castro Pontes	Avenida Presidente Castelo Branco, 445	69180-000	92 9524 7136



State/Region	Mayor - Focal Point	Address	CEP	Phone
<b>Amazonas East</b>				
<b>Rio Madeira</b>				
Apuí	Antonio Roque Longo	Avenida 13 de Novembro, s/n – Centro	69265-000	
Borba	Simão Peixoto Lima	Avenida 13 de Maio, 108	69200-000	
Humaitá	Herivaneio Vieira de Oliveira	Rua 13 de Maio, 177	69800-000	97 3373 1370
Manicoré	Manuel Sebastião Pimentel de Medeiros	Avenida Getúlio Vargas, 525 – Alto do Banco do Brasil	69280-000	97 3385 1555
Novo Aripuanã	Aminadab Meira de Santana	Avenida 16 de Fevereiro, s/n – Praça Nossa Senhora da Conceição	69260-000	97 3379 1900
<b>ACRE State</b>				
<b>Baixo Acre e Purus</b>				
Acrelândia	Ederaldo Caetano de Sousa	Avenida Brasil, 591	69945-000	68 3235 1173
Bujari	Romualdo de Souza Araujo	BR 364 Km 28, 900	69923-000	68 3231 1074
Capixaba	José Augusto Gomes da Cunha	Avenida Governador Edmundo Pinto, 1	69922-000	68 3234 1137
Jordão	Elson de Lima Farias	Avenida Francisco Dias, s/n	69975-000	68 3464 1030
Manoel Urbano	José Altanizio Taumaturgo Sá	Rua Valério Caldas Magalhães, s/n	69950-000	68 3611 1303
Plácido de Castro	Gedeon Sousa Barros	Rua Eptacio Pessoa, 146	69928-000	68 3237 1066
Porto Acre	Benedito Cavalcante Damasceno	Rodovia AC 10 Km 57	69921-000	68 3233 1032
Rio Branco	Marcus Alexandre Médici Aguiar Viana da Silva	Rua Coronel Alexandrino, 301	69909-730	68 3211 2202
Santa Rosa do Purus	Francisco de Assis Fernandes da Costa	Rua Cel José Ferreira, s/n	69955-000	68 3615 1035
Sena Madureira	Osmar Serafim de Andrade	Avenida Avelino Chaves, 722	69940-000	68 3612 2857
Senador Guiomard	Andre Luis Tavares da Cruz Maia	Avenida Castelo Branco, 1900	69925-000	68 3232 2592
<b>Alto Acre</b>				
Assis Brasil	Antonio Barbosa de Sousa	Avenida Raimundo Chaar, 362	69935-000	68 3548 1208
Brasiléia	Fernanda de Souza Hassem Cesar	Avenida Prefeito Rolando Moreira, 198	69932-000	68 3516 4661
Epitaciolândia	João Sebastião Flores da Silva	Rua Cap Pedro de Vasconcelos, 257	69934-000	68 3546 3680
Xapuri	Francisco Ubiracy Machado de Vasconcelos (Bira)	Rua 24 de Janeiro, 280	69930-000	
<b>Juruá e Tarauacá/Envira</b>				
Cruzeiro do Sul	Ilderlei Souza Rodrigues Cordeiro	Rua Rui Barbosa, 67	69980-000	68 3322 2169
Feijó	Kiefer Roberto Cavalcante Lima	Avenida Plácido de Castro, 672	69960-000	68 3463 2614
Mâncio Lima	Isaac de Souza Lima	Rua Mimosa Sá, 21	69990-000	68 3343 1445
Marechal Thaumaturgo	Isaac da Silva Piyãko	Rua 5 de Novembro, s/n – Praça Odon do vale	69983-000	
Porto Walter	José Estephan Barbary Filho	Rua Alfredo Sales, s/n	69982-000	68 3325 8004
Rodrigues Alves	Sebastião Souza Correia	Avenida São José, 780	69985-000	68 3342 1176
Tarauacá	Marilete Vitorino de Siqueira	Rua Cel Juvêncio Menezes, s/n	69970-000	68 3462 2376



State/Region	Mayor - Focal Point	Address	CEP	Phone
<b>Rondônia State</b>				
<b>Rondônia Porto Velho Region</b>				
<b>Madeira-Mamoré</b>				
Candeias do Jamari	Francisco Vicente de Souza (Chico Pernambuco)	Avenida Tancredo Neves, 1781	76860-000	69 3230 1200
Guajará-Mirim	Rodrigo Melo Nogueira	Avenida XV de Novembro, 930	76850-000	69 3541 3583 / 6858
Itapuã do Oeste	Moises Garcia Cavalheiro	Rua Airton Senna, 1425 – Centro	76861-000	69 3231 2245 / 2230 / 2754
Nova Mamoré	Claudionor Leme da Rocha	Av. Desidério Dom Lopes, 3040 – João FCO Climaco	76857-000	69 3544 2269 / 2864 / 3188
Porto Velho	Hildon de Lima Chaves	Rua Dom Pedro II, 8260 – Centro	76800-000	69 3901 3001 / 3874 / 3634
<b>Vale do Jamari</b>				
Alto Paraíso	Helma Santana Amorim	Rua Mal. Rondon, 3031 – Centro	78956-000	69 3534 2104 / 2107 / 2230
Ariquemes	Thiago Leite Flores Pereira	Av. Tancredo Neves, 1706 – Centro	76870-000	69 3516 2014/ 2000 / 2087
Buritis	Ronaldi Rodrigues de Oliveira (Roni Irmãozinho)	Rua São Lucas, 2476 – Setor 6	78967-800	69 3238 3860 / 2269 / 2487
Cacaulândia	Edir Alquieri	Av. João Falcão, 2119 – Centro	78944-000	69 3532 2151 / 2121 / 2184
Campo Novo de Rondônia	Oscimar Aparecido Ferreira	Av. Tancredo Neves, 2454	76887-000	69 3239 2357 / 2240 / 2270 / 2478
Cujubim	Pedro Marcelo Fernandes Pereira	Av. Condor, 2588 – Setor Industrial	76864-000	69 3582 2059 / 2147 / 3582
Machadinho D'Oeste	Eliomar Patrício	Av. Rio de Janeiro, 3094 – Centro	76868-000	69 3581 3723 / 3326 / 3016
Monte Negro	Evandro Marques da Silva	Praça Paulo Mioto, 2330 – Centro	78965-000	69 3530 3110 / 3261 / 3133
Rio Crespo	Evandro Epifanio de Faria	Rua Ermelindo Melani, 1040 – Centro	76945-000	69 3539 2010
<b>Rondônia Central Region</b>				
<b>Central</b>				
Alvorada D'Oeste	Jose Walter da Silva	Rua Ermelindo Melani, 1040 – Centro	76945-000	69 3539-2010
Governador Jorge Teixeira	João Alves Siqueira (João Paciência)	Av. Pedras Brancas, 2673 – Centro	76898-000	69 3524 1234 / 1182 / 1146
Jaru	Joao Goncalves Silva Junior	Rua Florianópolis, 3063 – Centro	76890-000	69 3521 6445 / 6993 / 4625
Ji-Paraná	Jesualdo Pires Ferreira Junior	Av. Dois de Abril, 1701 – Urupá	76900-000	69 3416 4000 / 4021 / 4025
Mirante da Serra	Adinaldo de Andrade	Rua Dom Pedro I, 2389 – Centro	76926-000	69 3463 2812 / 2800
Nova União	Luiz Gomes Furtado	Rua Duque de Caxias, 1158 – Centro	76924-000	69 3466 1122 / 1219 / 1220
Ouro Preto do Oeste	Vagno Gonçalves Barros	Av. Daniel Comboni, 1480 – Centro	76920-000	69 3461 4798 / 2416 / 5887
Presidente Médici	Edilson Ferreira de Alencar	Av. São João Batista, 1613 – Centro	76916-000	69 3471 3246
São Miguel do Guaporé	Cornelio Duarte de Carvalho	Av. São Paulo, s/n – Centro	76970-000	69 3642 2350 / 2200 / 2234
Texeirãopolis	Antonio Zotesso (Tonin)	Av. Afonso Pena, 2280 – Centro	76928-000	69 3465 1145 / 1112 / 1228
Urupá	Celio de Jesus Lang	Av. Jorge T. de Oliveira, 4872 – Alto Alegre	76920-000	69 3413 2218
Vale do Anari	Anildo Alberton	Av. Capitão S. Farias, 4571 – Centro	76867-000	69 3525 1058 / 1018 / 1497
Vale do Paraíso	Charles Luis Pinheiro Gomes	Av. Paraíso, 2601 – Centro	76959-000	69 3464 1005 / 1462



State/Region	Mayor - Focal Point	Address	CEP	Phone
<b>Rondônia State</b>				
<b>Zona da Mata</b>				
Alta Floresta D'Oeste	Carlos Borges da Silva	Av. Nilo Peçanha, 4513 – Redondo	76954-000	69 3641 3183 / 2463 / 2010 / 3195
Alto Alegre do Parecis	Marcos Aurelio Marques Flores	Av. Afonso Pena, 3370 – Centro	78994-800	69 3643 1255 / 1104 / 1101
Nova Brasilândia D'Oeste	Helio da Silva	Rua Riachuelo, 3284 – Setor 4	76958-000	69 3418 2239 / 3231 / 2641
Novo Horizonte do Oeste	Cleiton Adriane Cheregatto	Av. Elza Vieira Lopes, s/n – Centro	76956-000	69 3435 2138 / 3435 / 2394
Parecis	Luiz Amaral de Brito	Rua Carlos Gomes, s/n – Centro	76989-000	69 3447 1051 / 1053 / 1140 / 1256
Rolim de Moura	Luiz Ademir Schock	Av. João Pessoa, 4478 – Centro	76940-000	69 3442 3100 / 1724 / 1854 / 5668
Santa Luzia D'Oeste	Nelson Jose Velho	Rua 7 de Setembro, 2070 – Centro	76950-000	69 3434 2358 / 2340 / 2224
<b>Café</b>				
Cacoal	Glauce Maria Rodrigues Neri	Rua Anísio Serrão, 2168 – Centro	76963-804	69 3907 4105 / 4099 / 4093
Espigão D'Oeste	Nilton Caetano de Souza	Av. Rio Grande do Sul, 2800 – Vista Alegre	76945-000	69 3912 8015 / 8008 / 8060
Ministro Andreazza	Arnaldo Strellow	Av. Pau Brasil, 5577 – Centro	76919-000	69 3448 2361 / 2484
Pimenta Bueno	Juliana Araujo Vicente Roque	Jonas Antônio de Souza, 1466 – Centro	76976-000	69 3446 1205 / 1139
Primavera de Rondônia	Eduardo Bertoletti Siviero	Jonas Antônio de Souza, 1466 – Centro	76976-000	69 3446 1205 / 1139
São Felipe D'Oeste	Eleomar Silva Teixeira (Leo Silva)	Rua Teodoro Rodrigues da Silva, 667 – Centro	76977-000	69 3445 1099 / 1148
<b>Cone Sul</b>				
Cabixi	Silvenio Antonio de Almeida	Av. Tamoios, 4887 – Centro	78999-000	69 3345 2353 / 2308 / 2264
Cerejeiras	Airton Gomes	Av. Das Nações, 1919 – Centro	76997-000	69 3342 2671 / 2316 / 3868
Chupinguaia	Sheila Flavia Anselmo Mosso	Av. Vinte E Sete, 1133 – Centro	76990-000	69 3346 1105 / 1460
Colorado do Oeste	José Ribamar de Oliveira	Av. Paulo De Assis, 4132 – Centro	76993-000	69 3341 3421 / 4814 / 2147 / 2233
Corumbiara	Laercio Marchini	Av. Olavo Pires, 2129 – Centro	76995-000	69 3343 2192 / 2249 / 2254
Pimenteiras do Oeste	Olvindo Luiz Donde	Av. Brasil, 893 – Centro	76970-000	69 3344 1116 / 1085 / 1086 / 1082
Vilhena	Rosani Terezinha Pires da Costa Donadon	Centro Adm. Sen. Dr. Teotônio Vilela, s/n	76970-000	69 3919 7080 / 7062
<b>Vale do Guaporé</b>				
Costa Marques	Vagner Miranda da Silva	Av. Chianca, 1381 – Centro	76937-000	69 3651 3786
São Francisco do Guaporé	Gislaine Clemente	Av. Castelo Branco, 1046 – Pioneiros	76970-000	69 33621 2580 / 2504 / 2105
Seringueiras	Leonilde Alfien Garda	Av. Jorge Teixeira, 935 – Centro	76934-000	69 3623 2694 / 2055 / 2693



State/Region	Mayor - Focal Point	Address	CEP	Phone
<b>RORAIMA State</b>				
<b>Centro Norte</b>				
Alto Alegre	Pedro Henrique Wanderley Machado	Av. Getulio Vargas, 67	69350-000	95 3263 1141
Amajari	Vera Lúcia Araújo Cardoso	Av. Tepequem, s/n	69343-000	95 3224 1062
Boa Vista	Maria Teresa Saenz Surita Guimarães	Rua General Pena Brasil, 1011 - Bairro São Francisco - Palácio 9 de Julho	69305-330	95 3621 1717
Bonfim	Joner Chagas	Av. Rodrigo José da Silva, 37	69380-000	95 3552 1233
Cantá	Carlos Jose da Silva	Rua Renato Costa de Almeida, 100	69390-000	95 3553 1225
Mucujáí	Eronildes Aparecida Gonçalves (Nega)	Rua João Gomes, 133	69340-000	95 3542 1095
Normandia	Vicente Adolfo Brasil	Rua Manoel Amancio, 3	69355-000	95 3262 1207
Pacaraima	Juliano Torquato dos Santos	Rua Monte Roraima, s/n - Vila Nova	69345-000	95 3592 1268
Uiramutã	Manuel da Silva Araujo	Rua Cici Mota, s/n	69358-000	95 3591 1038
<b>Sul</b>				
Caracaráí	Maria do Perpetuo Socorro de Lima Guerra Azevedo	Pça. do Centro Cívico, s/n	69360-000	95 3532 1313
Caroebe	Argilson Raimundo Pereira Martins	Rua Perimetral Norte, s/n	69378-000	95 3263 1225
Iracema	Jairo Andre Ribeiro Sousa	Rua Floriano Peixoto, s/n	69348-000	95 3543 1069 / 88 3428 1595
Rorainópolis	Leandro Pereira da Silva	Rua Pedro Daniel da Silva, 51	69373-000	95 3238 1807
São João da Baliza	Marcelo Jorge Dias Fernandes	Av. São Paulo, 1077	69375-000	95 3235 1229
São Luiz	James Moreira Batista	Av. Macapá, 1000	69370-000	95 3537 1207



### A.3. Technologies and/or measures

>>

The measures for implementing the **Ajuricaba Project Activity**, as well as its Standard Operating Procedures - SOP, are an integral part of this PDD. Obeying the requirements of the ZNP0005 methodology, special attention will be paid to the non-contamination of health agents, as well as those responsible for the implementation of the project activity. The technical specifications, as well as the invoices for the equipment to be installed in the areas of the **Ajuricaba Project Activity**, will be appended to the Project Monitoring Report in due course, in order to allow its recognition during the Verification/Certification of the project activity. When the equipment is delivered to the areas of the **Ajuricaba Project Activity**, instructions will be provided - either remotely, via video conference or in person - that will allow full use of the equipment in question.

### A.4. Project participants of PA

Private and/or public entity(ies) involved in the project activity	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
Planck Comércio de Polímeros e Engenharia Holística Ltda	Yes
Until May 31, 2020, this PDD is open to those interested in participating in <b>Ajuricaba Project Activity</b> as a project proponent	
...	

### A.5. Public funding of project activity

>>

There is no public funding related to this project activity.

### A.6. Eligibility of the Land

>>

Not applicable.



## **SECTION B. Application of selected approved baseline and monitoring methodology**

### **B.1. Reference of methodology**

>>

"Methodology for Developing ZERO2NATURE Project Activities to Remove Negative Emissions Related to Covid19 through the Implementation of Hospital Equipment - Covid19-ZERO2NATURE-PREBIO" was employed. As required by the methodology, the following were also employed:

- (a) ZERO2NATURE Standard;
- (b) Project Design Document – PDD-PREBIO;
- (c) "Tool to identify the baseline scenario and to demonstrate additionality of COVID19-ZERO2NATURE-PREBIO project activities";
- (d) "Procedure with the fundamentals related to project activities COVID19-ZERO2NATURE-PREBIO";
- (e) "Guideline about the Relation between B-DTU, C-DTU, F-DTU, H-DTU, M-DTU, N-DTU AND DTUCOIN (DTX)";
- (f) "Glossary of ZERO2NATURE terms";
- (g) "ZERO2NATURE standard;
- (h) "Harvard Atmospheric Chemistry Modeling Group – [www.acmg.seas.harvard.edu](http://www.acmg.seas.harvard.edu)";
- (i) <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance>, which is an update of WHO Guidelines-Home/Emergencies/Diseases/Coronavirus disease 2019/.



## **B.2. Applicability of methodology**

>>

The proposed project activity as COVID19-ZERO2NATURE-PREBIO meets the conditions under which the chosen methodology applies for the following reasons:

- a) The proposed project activity is the first of its kind;
- b) The proposed project activity meets all the requirements of the "Tool to Identify the Baseline Scenario and to Demonstrate Additionality of Covid19-ZERO2NATURE-PREBIO Project Activities";
- c) The areas of implementation of the project activity are not mobile ICUs.

## **B.3. Strata Identification**

>>

As per item 5.3 of the approved methodology ZNP0005: When accounting for negative emissions in any segment of the ecosystem where the implementation of the COVID19-ZERO2NATURE-PREBIO project activity is proposed, social stratification must be considered in order to make the inventory more accurate. The perspective of different stratifications may be appropriate for both the baseline scenario and the project scenario, in order to optimize the accuracy in the estimates of net removal of negative emissions (COVID19).

The area of implementation of the **Ajuricaba Project Activity** covers the entire Western Amazon Region; which includes the states of Amazonas-AM, Acre-AC, Rondônia-RO and Roraima-RR. In addition to the increased susceptibility of indigenous peoples and riparian communities to COVID19, the application of the law, common sense and the basic principles of humanity take on gray tones. Fortunately, these cases represent a minimal portion of Brazilians, but their ability to do harm causes widespread damage, as can be seen in the article published on the website: <https://amazonasatual.com.br/indios-denunciam-que-sao-rejeitados-em-hospitais-no-interior-do-amazonas/> which we reproduce in full, in order to explain the strict measures adopted in the **Ajuricaba Project Activity** regarding its implementation. The article was published on May 9, 2020.

MANAUS - Kambéba Indians told the MPF (Federal Public Prosecutor's Office) of Amazonas that communities are facing difficulties to be served both by the local



municipal health system and by DSEI (Special Indigenous Sanitary District) in Alto Solimões, in relation to cases of contamination by the new coronavirus.

According to the complaints, the municipal health unit would also be denying or omitting in the medical records, reports and death certificates the indigenous identity and ethnic belonging of these patients. The situation, according to the MPF, affects Indians in the municipalities of Alto and Médio Solimões and Vale do Javari. The MPF recommended the city halls to guarantee the service to the indigenous people.

The recommendation was sent to the municipalities of Tabatinga, Benjamin Constant, Amaturá, Atalaia do Norte, Santo Antônio do Içá, São Paulo de Olivença, Jutai and Tonantins, and to the Alto Solimões Special Indigenous Sanitary Districts (DSEI / ARS), of the Middle Solimões (DSEI / Médio Solimões e Afluentes) and Vale do Javari (DSEI / Vale do Javari) and for FUNAI (National Indian Foundation).

The reports show that care in health units is being denied to non-villagers and that SESAI (Special Secretariat for Indigenous Health) is insisting on making a difference between the care of indigenous peoples living in villages and those living in urban areas. After an initiative by the MPF to listen to the indigenous people through letters, the leaders responded to the agency, informing the situation and requesting special assistance. Other representations sent to the MPF also denounced the same facts.

Among the main measures recommended by the MPF recommendations, is priority care in a different way for indigenous patients - locals or not - suspected of COVID19, in order to reduce the time of contact between health professionals and the indigenous people present at the place of care. MPF also recommends an adequate communication with the indigenous patient, using an interpreter with the FUNAI's support (if necessary), to carry out the correct guidance, care and treatment.

Another recommendation is the registration of indigenous identity and ethnic belonging in medical records, reports, certificates (including death certificates), to patients who present a document that considers them indigenous, or in their absence, due to the exclusive self-declaration and awareness of the identity of the indigenous and also the inclusion of the respective assistance to indigenous patients and their health conditions, as of the date of the recommendation issued, in all bulletins that will be issued by the municipalities on the framework for combating COVID19.

The MPF also recommended that FUNAI, through regional coordination with the municipalities where its respective areas operate, so that spaces are reserved, in municipal cemeteries, for indigenous people who eventually die due to COVID19 or condition similar, in villages or not, establishing all necessary health and safety measures during burials. The request for these spaces was made by the indigenous people themselves, according to the recommendation.



The deadline for complying with the recommendation was three days.

#### **B.4. Project boundary**

>>

The Project boundaries will be established in two stages. For **Ajuricaba Project Activity** validation, the project boundaries will be those shown in the table below and refer to the local city halls. For greater security, the name of the mayor is pointed out as the Focal Point of the area. By verification time, the project boundaries will be those where the beds were intended, following the delivery protocol established in the SOP attached to this PDD.

#### **B.5. Establishment and description of baseline scenario**

>>

As can be attested, from the maps presented in this PDD, **Ajuricaba Project Activity** is being implemented in the most remote areas of Brazil, where the precariousness of all social assistance is stark. As previously pointed, riparians and indigenous communities are constantly exposed to outlaws, who have little or no appreciation for life other than their own, ending up contaminating an entire population that is much more sensitive to infections and deaths. Historically, entire indigenous communities have been devastated by viruses that, to non-native people, are practically harmless. Of course, this is not the case for cov-sars-2, but the lack of zeal in the region is the rule.

As established in item 5.4 of the approved methodology ZNP0005, the baseline of net removals of negative emissions COVID19 in ICUs shall be calculated as follows:



$$E_{BL,y} = E_{ICU_{Beds}_{BL,y}} + E_{Ventilators_{BL,y}} + E_{Oximeters_{BL,y}} + E_{Electrocardiographs_{BL,y}} + E_{Defibrillators_{BL,y}} + E_{Multiparametric\ monitors_{BL,y}}$$

Where:

$E_{BL,y}$  = Baseline of net removal of negative COVID19 emissions in ICUs, in year y, on fully equipped beds, as per the "Tool for identifying the baseline scenario and demonstrating additionality in the project activities COVID19 – ZERO2NATURE – PREBIO";

$E_{ICU_{Beds}_{BL,y}}$  = Number of baseline occupied ICU beds within the project boundaries in year y, in DLO;

$E_{Ventilators_{BL,y}}$  = Number of baseline utilized ventilators within the project boundaries in year y, in DLO;

$E_{Oximeters_{BL,y}}$  = Number of baseline utilized oximeters within the project boundaries in year y, in DLO;

$E_{Electrocardiographs_{BL,y}}$  = Number of baseline utilized electrocardiographs within the project boundaries in year y, in DLO;

$E_{Defibrillators_{BL,y}}$  = Number of baseline utilized defibrillators within the project boundaries in year y, in DLO;

$E_{Multipara\_monitors_{BL,y}}$  = Number of baseline utilized multiparametric monitors within the project boundaries in year y, in DLO.

As has been amply demonstrated in this PDD, the region where **Ajuricaba Project Activity** is implemented is one of the most vulnerable in Brazil. Another important factor to consider is the total disconnection between the President of Brazil and the protocols adopted worldwide, based on the recommendations of the World Health Organization-WHO. On April 16, 2020, the Minister of Health was dismissed for not accepting the imposition of the president regarding the mandatory use of chloroquine and hydroxychloroquine as a treatment for COVID19. For the same reason, on May 15, 2020, his substitute resigned as well. It is worth mentioning that the two dismissed ministers are doctors and Brazil's president is a gym instructor. The crisis in the Brazilian health system is so serious that the collapse of care in ICUs in the western Amazon region was declared on April 29, 2020. Therefore, the baseline scenario for ICU beds available for treatment of COVID19 in **Ajuricaba Project Activity** area is equal to zero.

## B.6. Demonstration of additionality

>>

As required by the applied methodology, the demonstration of additionality in **Ajuricaba Project Activity** has been determined with the application of the "Tool to Identify the Baseline Scenario and to Demonstrate Additionality of COVID19-



ZERO2NATURE-PREBIO Project Activities". As per item "Procedure" of the referred tool:

**Step 1.** Preliminary screening based on the beginning of the activities that culminated in COVID19- ZERO2NATURE-PREBIO proposed project activity, showing that the sale of COVID19- PREBIO-DTUs was of fundamental importance in the realization and implementation of the project;

**Step 1. – Corroboration** – Considering the unpreparedness of the whole world in combating the pandemic of COVID19 and all the difficulties that are expected to continue for years, with regard to the resumption of the world economy, there is no economic attractiveness to the proponents of **Ajuricaba Project Activity**, beyond the sale of COVID19- PREBIO-DTUs or their subscription to the O2N Blockchain and consequent transformation into the cryptocurrency DTUCOIN - DTX.

**Step 2.** Identification of alternative scenarios to that which should occur with COVID19- ZERO2NATURE-PREBIO proposed project activity in a detailed and credible way, with presentation of objective evidence;

**Step 2. – Corroboration** – Considering the collapse of the health system in the Western Amazon, officially declared by the Brazilian Ministry of Health on April 29, 2020, there are no alternative scenarios to the implementation of the **Ajuricaba Project Activity**.

As per "Guidelines on Additionality of First-Of-Its-Kind Project Activities", item II. Identification of a first-of-its-kind project activity - A proposed project activity is the first of its kind in the applicable geographical area if "the project is the first in the applicable geographical area that applies a technology that is different from technologies that are implemented by any other project, which are able to deliver the same output and have started commercial operation in the applicable geographical area before the ZERO2NATURE project design document is published for global stakeholder consultation or before the start date of the proposed project activity, whichever is earlier."

**Corroboration – Ajuricaba Project Activity** is the first to use the ZNP0005 methodology, which proves its first-of-its-kind condition.

As per "Guidelines on Additionality of First-Of-Its-Kind Project Activities", item III. Additionality of the first-of-its-kind project activity:

A proposed project activity that has been identified as a first-of-its-kind project activity is additional.



Therefore, **Ajuricaba Project Activity** is additional.

## B.7. Emission reductions

### B.7.1. Explanation of methodological choices or Sink Removal Method

>>

According to the ZNP0005 methodology and the "Procedure with the fundamentals related to the activities of the COVID19-ZERO2NATURE-PREBIO project", a fully equipped ICU bed (one oximeter, one mechanical ventilator, one electrocardiograph, one defibrillator and one multiparametric monitor) has the generation potential of 1719 B-DTUs per year. As per the definition of DLO: "Defined Living Organism–Refers to the unit that makes up the always homogeneous set of living beings computed in the proposed COVID19-ZERO2NATURE-PREBIO project activity", each one of the ICU beds installed in the western Amazon region and which are mainly used to treat members of indigenous and riparians communities, has the potential to save more than 15 lives per year. This is the reason for the methodology choosing on the occasion of the **Ajuricaba Project Activity** implementation.

### B.7.2. Data and parameters fixed ex ante

*(Copy this table for each piece of data and parameter.)*

Parameter 1 - ICU beds	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus disease 2019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	At Validation and every Verification
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.

Parameter 2 - Ventilators	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms



Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus%20disease%202019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	At Validation and every Verification
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

Parameter 3 - Oximeters	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus%20disease%202019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	At Validation and every Verification
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

Parameter 4 - Electrocardiographs	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus%20disease%202019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	At Validation and every Verification



QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

Parameter 5 - Defibrillators	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus%20disease%202019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	At Validation and every Verification
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

Parameter 6 - Multiparametric Monitors	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus%20disease%202019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	At Validation and every Verification
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.



### B.7.3. Ex ante calculation of emission reductions

>>

As established in item 5.6 of the approved methodology ZNP0005, the net anthropic removals of negative COVID19 emissions in ICUs, through the implementation of hospital equipment, shall be based on the application of the parameters presented in item 6.3 of the referred methodology, together with the application of the following formula, for all COVID19-ZERO2NATURE-PREBIO project activities:

$$E_{Effective,y} = E_{AR,y} - E_{BL,y} - Leakage_y$$

Where:

$E_{Effective,y}$  = Effective anthropic removals of negative emissions, in year y, through implementation of COVID19 – ZERO2NATURE – PREBIO project activity, in DLO;

$E_{AR,y}$  = Total anthropic removals computed in the area of the COVID19 – ZERO2NATURE – PREBIO project activity, in DLO;

$E_{BL,y}$  = Baseline of anthropic removals of negative emissions, in year y, upon implementation of COVID19 – ZERO2NATURE – PREBIO project activity, in DLO;

$Leakage_y$  = negative emissions due to leakages, in year y, in DLO

### B.7.4. Summary of ex ante estimates of emission reductions

>>

Year	Negative emissions removal baseline (EIP*DLO)	Effective removal of negative emissions (EIP*DLO)	Leakage (EIP*DLO)	Net removal of negative emissions (COVID19) (EIP*DLO)	Net removal of negative emissions from the project activity (EIP*DLO)
2020	0	516.975	103.395	413.580	413.580
2021	0	2.062.250	412.450	1.649.800	1.649.800
Total	0	2.579.225	515.845	2.063.380	2.063.380
Annual average during the crediting period	0	1.289.613	257.923	1.031.690	1.031.690



#### B.7.5. DTU generation by the project activity

>>

Considering the Zero2Nature Standard, item 7.3.2: "Providing proven additionality, the crediting period of all ZERO2NATURE project activities is undetermined. Nevertheless, ZERO2NATURE project activities must have their crediting period renewed every 7 years" and also the general lack of knowledge about the developments arising from COVID19, the **Ajuricaba Project Activity** considers the generation of B-DTUs until December 31, 2021. However, once proved the continuity of the additionality of the project activity, the monitoring report to be presented in the verifications/certifications that occur after this date, will obey the monitoring plan (SOP) attached to this PDD, with the demonstration of the same type of objective evidence presented at the time of validation and, if applicable, the first verification of **Ajuricaba Project Activity**. As shown in item B.7.4 of this PDD, the total volume of B-DTUs generated by **Ajuricaba Project Activity**, between the years 2020 and 2021 will be 2,063,380 B-DTUs.

#### B.7.6. DTX generation by the project activity

>>

As per the Guideline about the Relation between B-DTU, C-DTU, F-DTU, H-DTU, M-DTU, N-DTU and DTUCOIN (DTX), item 1: "The equivalence between the different types of Diseconomy Traded Units (DTUs) and DTX will be reviewed every year and the table valid for the next year will be published on the ZERO2NATURE website, on October 18th. Until October 17, 2020, the expressed in the following table is valid:"

Type of DTU	Equivalence (DTX)	Scenario reference (as per the EIP)
B-DTU	1,5	CFC-11, 1,4-dichlorobenzene, ethylene, SO <sub>2</sub> , PO <sub>4</sub>
C-DTU	2,5	MJ
F-DTU	1	CO <sub>2</sub> , PDF, m <sup>2</sup>
H-DTU	5	1,4-dichlorobenzene, SO <sub>2</sub> , PO <sub>4</sub>
M-DTU	10	Antimony
N-DTU	0,5	CFC-11, CO <sub>2</sub> , 1,4-dichlorobenzene, ethylene, SO <sub>2</sub> , PO <sub>4</sub>



Therefore, the total volume of net negative emission removal from the **Ajuricaba Project Activity** times B-DTU equivalence factor is:

$$\text{DTX volume} = 2,063,380 \times 1.5 \Rightarrow \mathbf{3,095,070}$$

## B.8. Monitoring plan

### B.8.1. Data and parameters to be monitored

*(Copy this table for each piece of data and parameter.)*

<b>Parameter 1 - ICU beds</b>	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus_disease_2019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	Every week
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.

<b>Parameter 2 - Ventilators</b>	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus_disease_2019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	Every week
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.



Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.
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<b>Parameter 3 - Oximeters</b>	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus_disease_2019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	Every week
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

<b>Parameter 4 - Electrocardiographs</b>	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus_disease_2019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	Every week
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

<b>Parameter 5 - Defibrillators</b>
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Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus_disease_2019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	Every week
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

<b>Parameter 6 - Multiparametric Monitors</b>	
Parameter/data:	Determination of COVID19-PREBIO-DTUs
Unit of measurement:	Organisms
Description:	Description of the area where it was performed and the type of measurement performed
Data source:	Field Measurement
Measurement procedures (if any):	Procedures determined by WHO: <a href="http://www.Home/Emergencies/Diseases/Coronavirus_disease_2019">www.Home/Emergencies/Diseases/Coronavirus disease 2019</a>
Monitoring frequency:	Every week
QA/QC:	Procedures related to quality assurance / quality control (QA/QC) prescribed in the WHO "Core Medical Equipment" report.
Coments:	For any and all considerations related to this parameter, this equipment must be used in conjunction with the equipment described in Parameter 1 - ICU Beds, of this methodology.

In addition to the weekly collection of data related to the assessment of general conditions and precision of the equipment contained in the previous parameters, the details of which must be part of the Standard Operating Procedures-SOP; will be observed:



(a) The total preservation of the quality of services related to **Ajuricaba Project Activity**, will be monitored by crossing information. Including the possible contamination of personnel in any way connected to the project activity (doctors, nurses, assistants, visitors, cleaning personnel, etc.), which will be counted as anthropic emission caused by the project (leakage) in the calculation of B-DTUs. All data collected will be recorded and archived and a databook will be provided.

(b) Widely accepted principles will be used in the inventory and management of the project activity, including:

(i) SOP and QA/QC adopted by the region's health area as common practice, including field data collection will be applied;

(ii) SOP related to the set of rules and laws established by the ministry of health of Brazil were observed and confirm the practice documented in this PDD.

#### **B.8.2. Sampling plan**

>>

Not applicable.

#### **B.8.3. Other elements of monitoring plan**

>>

There are no other elements to add to the monitoring plan

### **SECTION C. Duration and crediting period**

#### **C.1. Duration of project activity**

##### **C.1.1. Start date of project activity**

>>

May 18, 2020.



### **C.1.2. Expected operational lifetime of project activity**

>>

Taking into account the general lack of knowledge about COVID19 and in compliance with item 7.3.2 of the ZerO2Nature Standard this PDD accounts for the total of B-DTUs arising from the **Ajuricaba Project Activity** until December 31, 2021.

### **C.2. Crediting period of project activity**

#### **C.2.1. Start date of crediting period**

>>

June 30, 2020

#### **C.2.2. Length of crediting period**

>>

As per item 7.3.2 of the ZerO2Nature Standard, as long as the **Ajuricaba Project Activity** is additional.

## **SECTION D. Environmental impacts**

### **D.1. Analysis of environmental impacts**

>>

Considering the seriousness of the health system situation in Brazil, especially the collapse caused by COVID19 in the Western Amazon region, the impact caused by **Ajuricaba Project Activity** can only be categorized as positive.



## **D.2. Environmental impact assessment**

>>

**Ajuricaba Project Activity** aims to implement 1,800 ICU beds in the western region of the Amazon, for the treatment of COVID19. Regarding possible risks:

**Contamination** - The virtual training of everyone involved in the implementation of the **Ajuricaba Project Activity** has a positive impact, decreasing the possibility of contamination and increasing the chance of containment, since each team will have better conditions and a longer time frame for decision making;

**Project implementation** - Everyone involved in the **Ajuricaba Project Activity** will undergo training where the need to comply with all the requirements of the ZERO2NATURE standard and the best sanitary practice will be emphasized. Thus, the implementation of the project must occur without contamination of personnel.

Thus, we can significantly minimize the risks, which already have the appropriate countermeasures.

## **D.3. Analysis of social economic impacts**

>>

As widely described here, the western Amazon region, being far removed, is extremely vulnerable; be it in terms of the susceptibility of its inhabitants to diseases against which civilization already has antibodies, as well as in relation to the immense difficulties of locomotion and hospital care in the area. **Ajuricaba Project Activity**, in addition to bringing part of the much needed resources to the area, also brings visibility to the fragile situation in which the indigenous and riparians communities are today, due to the government policies currently in practice in Brazil.

## **D.4. Social economic impact assessment**

>>

As stated in item D.1., D.2. and D.3. of this PDD, the socio-economic impact of **Ajuricaba Project Activity** is positive.



## SECTION E. Local stakeholder consultation

### E.1. Solicitation of comments from local stakeholders

>>



#### CONVITE À POPULAÇÃO

São Paulo, 15 de maio de 2020.

Planck Comércio de Polímeros e Engenharia Holística Ltda. faz saber e convida, por meio desta, toda a população a conhecer detalhes **da Ajuricaba Project Activity**, nos próximos dias 20 e 27 de maio de 2020, às 10:00h (UTC/GMT-03:00), através do chat com link abaixo. Na ocasião, o projeto gerador da criptomoeda DTX, através da remoção de deseconomias decorrentes da COVID19 será apresentado e aberto a comentários que, uma vez ocorram serão, juntamente com suas devidas respostas, partes integrantes do documento de concepção de projeto.

Planck Comércio de Polímeros e Engenharia Holística Ltda. - PLANCK E, make known and invite, through this, the entire interested population, to know details of **Ajuricaba Project Activity**, in the next days May 20 and 27, 2020, at 10:00AM (UTC/GMT-03:00), through chat that can be accessed clicking the link below. On the occasion, the DTX cryptocurrency generating project, through the removal of diseconomies resulting from COVID19, will be presented and open to comments that, once they occur, will be, together with their due responses, integral parts of the project design document.

<https://zoom.us/j/9863967302?pwd=bjBkNlduSUhxRFZybWVWNzlxMDVCdz09>



## **E.2. Summary of comments received**

>>

If any, comments will be added after May 27, 2020

## **E.3. Report on consideration of comments received**

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### **Appendix 1: Contact information of project participants**

<b>Organization name</b>	Planck Comércio de Polímeros e Engenharia Holística Ltda – PLANCK E
<b>Street/P.O. Box</b>	Rua Jaime Pires Martins
<b>Number</b>	244
<b>City</b>	Carapicuíba
<b>State/Region</b>	São Paulo - SP
<b>Postcode</b>	06350-250
<b>Country</b>	Brazil
<b>Telephone</b>	+551141698484
<b>Fax</b>	
<b>E-mail</b>	info@planck.com
<b>Website</b>	www.planck-e.com
<b>Represented by</b>	CEO
<b>Title</b>	Doctor
<b>Salutation</b>	Patrizia
<b>Last name</b>	Tomasi-Bensik
<b>Middle name</b>	
<b>First name</b>	Patrizia
<b>Department</b>	
<b>Mobile</b>	
<b>Direct fax</b>	
<b>Direct tel.</b>	+551141698484
<b>Personal e-mail</b>	patriziatomasi@planck-e.com

### **Appendix 2: Affirmation regarding public funding**

1. Not applicable

### **Appendix 3: Applicability of selected methodology**


2. It is a first-of-its-kind project activity, using approved methodology ZNP0005

### **Appendix 4: Further background information on ex ante calculation of emission reductions**

3. Not applicable



## Appendix 5: Further background information on monitoring plan

	STANDARD OPERATING PROCEDURE	SOP VERSION	01
		Implementation Date	May 18, 2020.
		Last Reviewed/Update Date	May 18, 2020.

### Standard Operating Procedure

#### 1. Purpose

This SOP objective is to establish procedures to the implementation of **Ajuricaba Project Activity** as a ZERO2NATURE project activity. Thus, this SOP is related to the monitoring plan, training program and leakage detection.

#### 2. Scope

Related to the **Ajuricaba Project Activity** monitoring plan – PHASE 1:

The total preservation of the quality of services related to **Ajuricaba Project Activity** will be monitored by crossing information. All data collected will be recorded and archived and a data-book will be provided.

(b) Widely accepted principles will be used in the inventory and management of the project activity, including:

(i) SOP and QA/QC adopted by the region's health area as common practice, including field data collection will be applied;

(ii) SOP related to the set of rules and laws established by the ministry of health of Brazil were observed and confirm the practice documented in this PDD.

**Ajuricaba Project Activity** training program – PHASE 2:

Training on equipment handling will be given - at the present time - virtually, in the 3 days prior to the delivery of the equipment and three days after its installation.

**Ajuricaba Project Activity** leakage detection – PHASE 3:

Contamination of personnel in any way connected to the project activity (doctors, nurses, assistants, visitors, cleaning personnel, etc.), which will be counted as anthropic emission caused by the project (leakage) in the calculation of B-DTUs.

During the first 18 months of the project activity, the leakage detection and prevention will occur through a thorough training program.

Documents: SOP short-form



#### STANDARD OPERATING PROCEDURE

SOP VERSION	01
Implementation Date	May 18, 2020.
Last Reviewed/Update Date	May 18, 2020.

### 3. Prerequisites

All documents related to this SOP will be added in five days after its production.

### 4. Responsibilities

In its inception, the communication agents of **Ajuricaba Project Activity** will be the mayors presented in Table 1 of this PDD.

### 5. Procedure

**Responsible:** PLANCK E, communication agents, ICUs employees and project activity employees;

**What:** To guarantee the most accurate implementation and efficacy of the monitoring plan pertaining to the **Ajuricaba Project Activity**;

**When:** During the whole project activity life;

**Where:** In the project activity area, located in the Western Amazonian Region - Brazil;

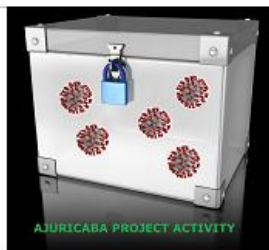
**Why:** To guarantee the access to indigenous and riparians communities to the proper treatment of COVID19 through **Ajuricaba Project Activity**;

**How:** Through the implementation of the measures and procedures established by this SOP.

### 6. References

1. PDD of **Ajuricaba Project Activity**;
2. "Methodology for Developing ZERO2NATURE Project Activities to Remove Negative Emissions Related to Covid19 through the Implementation of Hospital Equipment - Covid19-ZERO2NATURE-PREBIO" was employed. As required by the methodology, the following were also employed:
3. ZERO2NATURE Standard;
4. "Tool to identify the baseline scenario and to demonstrate additionality of COVID19-ZERO2NATURE-PREBIO project activities";

Documents: SOP short-form



#### STANDARD OPERATING PROCEDURE

SOP VERSION	01
Implementation Date	May 18, 2020.
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5. "Procedure with the fundamentals related to project activities COVID19-ZERO2NATURE-PREBIO";
6. "ZERO2NATURE standard;
7. "Harvard Atmospheric Chemistry Modeling Group – [www.acmg.seas.harvard.edu](http://www.acmg.seas.harvard.edu)";
8. <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance>, which is an update of WHO Guidelines-Home/Emergencies/Diseases/Coronavirus disease 2019/.

#### **7. Definitions**

Vide "Glossary of ZERO2NATURE terms".



## Appendix 6: Summary of post registration changes

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### History of the document

Version	Date	Nature of revision
1.0	EC conference call on 04 May 2020	Initial adoption.
<b>Decision Class:</b> Regulatory <b>Document Type:</b> Form <b>Business Function:</b> Registration		