	conducted by Bolivia Office: July 2024
Country Name	Mother and Child Health Network Improvement Project in Oruro
Plurinational State of Bolivia	Mother and Child Health Network Improvement Project in Ordro

# I. Project Outline

Background	Bolivia had the second highest maternal mortality ratio in Latin America after Haiti (200 per 100,000 live births), under-five mortality ratio (39 per 1,000 live births), and infant mortality ratio (32 per 1,000 live births) <sup>1</sup> . In the Department of Oruro, located in the altiplanos of western Bolivia, the health situations were worse than the above-mentioned national averages (under-five mortality ratio: 69 per 1,000 live births, the infant mortality ratio: 56 per 1,000 live births) <sup>2</sup> .		
Objectives of the Project	Through the improved services provided by health facilities, changed health awareness and behavior of community residents through participatory health promotion activities, and strengthened health management (analysis of health information, planning based on analysis results, supervision of health care facilities, etc.), the project aims to improve maternal and child health (MCH) services with community participation, therefore contributing to improve health situations of pregnant women and child under 5 children in the Department of Oruro.  1. Overall Goal: Maternal and child (under 5 years old) health situation is improved in the Department of Oruro.  2. Project Purpose: Maternal and child health care is improved with community participation in the project sites		
Activities of the Project	<ol> <li>(3 Health Networks of Azanake, Minera and Norte).</li> <li>Project site: 3 Health Networks (Azanake, Minera and Norte), 16 municipalities.</li> <li>Main activities: Training of the health personnel on MCH, referral/counter referral, biosafety, etc., implementation of health promotion activities in communities, activation of the Information Analysis Committee (CAI), conduct of the integral supervision, etc.</li> <li>Inputs (to carry out above activities)</li> <li>Japanese Side Bolivian Side</li> <li>Experts: 8 persons 1) Staff allocated: 16 persons</li> <li>Trainees received: 11 persons 2) Land and facilities: Office space, electric utility</li> <li>Equipment: Vehicle, Fetal Doppler, ultrasound expense, etc.</li> <li>Equipment, childbirth simulators, pediatric oxygen inhalers, incubators, etc.</li> <li>Local cost: travel costs, vehicle maintenance, consumables, etc.</li> <li>Local cost for activity implementation</li> </ol>		
Project Period	(ex-ante) November 2015 to October 2019 [48 months]   Project Cost (Japanese side only)   (ex-ante) November 2015 to October 2019 [48 months]   Project Cost (Japanese side only)   (ex-ante) 316 million yen, (actual) 338 million yen		
Implementing Agency	Ministry of Health (Currently Ministry of Health and Sports) (MOHS), Autonomous Departmental Government of Oruro, Departmental Health Service (SEDES) of Oruro		
Cooperation Agency in Japan	Juntendo University.		

### II. Result of the Evaluation

<Special Perspectives Considered in the Ex-Post Evaluation>

[Interpretation of indicators of the Project Purpose]

The coverages of the fourth antenatal care (Indicator 1) and the institutional delivery (Indicator 2) were calculated with the expected births provided by the National Institute of Statistics. However, the number of actual births was less than the expected figures. Therefore, to verify the achievement and continuation of these indicators, the result of the ratios was mainly considered.

[Verification of the continuation of the project effects]

- Regarding Indicators 6 and 7, the impact evaluation on the competency and performance of the health and management personnel was conducted with the control group in the terminal evaluation. In the ex-post evaluation, since the same data collection and analysis were difficult due to the time and resource limitations, these were not confirmed as the continuity of the project effects, but as part of the technical aspect of sustainability.
- Regarding Indicator 8, the effects of the participatory community activities on self-efficacy, social capital, and quality of life of the community residents were statistically analyzed in the Terminal Evaluation. In the ex-post evaluation, since the same data collection and analysis were difficult due to time and resource limitations, this indicator was not used to verify the continuation of the project efforts in the ex-post evaluation.
- Indicator 9 is related to the municipal management for MCH services and is not a direct indicator of the Project Purpose. Therefore, this indicator was not used to verify the continuation of the project efforts in the ex-post evaluation.

# 1 Relevance/Coherence

[Relevance]

<Consistency with the Development Policy of Bolivia at the Time of Ex-Ante Evaluation >

"The Health Sector Development Plan" (2010-2020) identified the improvement of MCH as one of the priority areas, focusing on

<sup>&</sup>lt;sup>1</sup> 2013 estimates of the World Health Organization.

<sup>&</sup>lt;sup>2</sup> Statistics of the Departmental Health Service of Oruro.

<sup>&</sup>lt;sup>3</sup> The project started on February 22, 2016, and was completed on February 21, 2020, and therefore the project period was counted as 48 months.

equitable access to health services, health promotion and community participation, and health management under the SAFCI policy<sup>4</sup>. The "Department Development Plan" of Oruro (2010-2015) emphasized the reduction of child malnutrition and maternal and child mortality, health promotion, and improved access to health services through the implementation of the SAFCI policy. The project was consistent with the development policy of Bolivia at the time of ex-ante evaluation.

<Consistency with the Development Needs of Bolivia at the Time of Ex-Ante Evaluation >

Health indicators were particularly poor in the Altiplano region, which was attributed to a combination of factors including a lack of health care personnel and a lack of timely access to health care services. The project was consistent with the development needs of Bolivia at the time of ex-ante evaluation.

<Appropriateness of Project Design/Approach>

No problem attributed to the project design/approach was confirmed. The project design/approach was appropriate.

<Evaluation Result>

In light of the above, the relevance of the project is 35.

# [Coherence]

<Consistency with Japan's ODA Policy at the Time of Ex-Ante Evaluation>

In the "Country Assistance Policy for Bolivia" (2012), one of the priority areas was social development with a focus on human resource development. Related to this, it was described that continuous support would be given for support for social development with a focus on improving MCH and others. The project was consistent with Japan's ODA policy to Bolivia at the time of ex-ante evaluation.

<Collaboration/Coordination with JICA's other interventions>

Although the collaboration/coordination between the project and the "Project of Strengthening the Pre-service Education System for Co-medicals" (2017-2021) of JICA was planned at the time of ex-ante evaluation, it was not implemented due to the difficult coordination of activity progress. On the other hand, the results of the "Maternal and Child Health Network Improvement Project in Potosi" (2013-2017) such as the "Local Guide of Education for Life" and CAI activation were reflected in the project through the field visits to the preceding project.

<Cooperation with other institutions/ Coordination with international framework>

The cooperation/coordination with the Inter-American Development Bank (IDB) and Korea International Cooperation Agency (KOICA) was planned at the time of ex-ante evaluation and implemented as planned, and the positive effect was confirmed at the time of ex-post evaluation, as explained later. IDB did not intervene as planned, but the reason could not be confirmed.

<Evaluation Result>

In light of the above, the coherence of the project is ③.

[Evaluation Result of Relevance/Coherence]

In the light above, the relevance/coherence of the project is ③.

# 2 Effectiveness/Impact

<Status of Achievement of the Project Purpose at the Time of Project Completion>

At the time of project completion, the Project Purpose was partially achieved. The ratio of the fourth antenatal care increased at the selected facilities of the three Networks from 2013 to 2018 (Indicator 1). The institutional deliveries decreased in all of the Networks (Indicator 2), although the ratio was still higher than the national average. The average rate of first postnatal care increased at the selected facilities from 2013 to 2018 (Indicator 3). The total number of growth and development monitoring in children under 5 at the facilities decreased (new and repeated) in all of the Networks from 2015 to 2018 (Indicator 4). Reasons may include an increase in the doctor's home visits which provided the growth and development monitoring, inaccuracy of the data, and so on. Before 2016, the monitoring was conducted when free nutritious food was provided at the facilities, but this free program ended in 2017, which may lead to a decrease in the monitoring. The total number of early child development assessments (new and repeated) in children under 2 increased in all of the three Networks from 2017 to 2018 (Indicator 5). The comparison between the baseline survey and the end-line survey revealed the improvement of the competency of the operational and management personnel and health personnel (Indicator 6), the user's assessment of health care (Indicator 7), and the residents' self-efficiency and social capital after the community health activities (Indicator 8). The number of municipal health teams that improved municipal health management increased in all of the networks (Indicator 9).

<Continuation Status of Project Effects at the Time of Ex-Post Evaluation>

By the time of the ex-post evaluation, the project effects have been partially continued. The ratio of the fourth antenatal care has decreased since the project completion, which was affected by the pandemic of COVID-19. In 2020 and 2021, many pregnant women stayed at home not to get infected. In 2021, prenatal check-ups were recommended after the 5th month of pregnancy. Another reason is the migration from the target sites to the capital of Oruro for the commercial purposes of the family. The ratio of institutional deliveries turned to increase in 2019 and has been sustained. The ratio of the first postnatal care has been sustained, too. The number of growth and development monitoring in children under 5 has kept decreasing. During the pandemic of COVID-19, health facilities exclusively treated COVID-19 cases, and also parents were hesitant to take their children to the facilities. The data of early child development assessments (new and repeated) in children under 2 were not available, because errors occurred in the data registry in 2020 and it was repaired in 2022. According to SEDES Oruro, the rate of ECD compliance in the target facilities was at least 84%, higher than that of the non-target facilities.

As the supplemental information on the continuity of the project effects, community activities were suspended during the pandemic of COVID-19 and since 2022 some activities have restarted. In 2 of the 9 visited municipalities, Education for Life Teams have been active. In all of the 16 municipalities, CAI has been regularly conducted to discuss community health issues and reflect the results in the health activity plan. In 14 municipalities, the health facilities have been monitored with the comprehensive supervision program developed by the project. AJO<sup>6</sup> criteria flow for the referral and counter-referral have been used in eight of the nine visited municipalities. However,

<sup>&</sup>lt;sup>4</sup> The SAFCI policy emphasizes that "attitudes toward health vary from culture to culture, and that living healthy is more important than coping with diseases." It has the concept of a multicultural, integrated model of care that incorporates Andean cultures including indigenous values based on the individual, family, and community and and Western cultures.

 $<sup>^5</sup>$  4 : very high, 3 : high, 2 : moderately low, 1 : low

<sup>&</sup>lt;sup>6</sup> AJO stands for Adecuado (Appropriate), Justificado (Justified), and Oportuno (Timely).

according to the interviewed municipalities, AJO feedback from the reference hospital has been limited. Regarding biosafety and solid waste management, the self-assessment has been conducted at least once a year and the information has been managed with the computer program development by the project.

SEDES Oruro has disseminated the project experiences to other health networks in the department. Efforts on early childhood development and biosafety have been implemented in other health networks (Cuenca Poopó, Oeste, and Urbana). Activities of the Competency Development Centers (CDC) have been replicated in other health networks with support from KOICA and the Pan American Health Organization (PAHO). AJO analysis has been expanded to all health networks. Since the update of the National Standard in 2022, SEDES Oruro has made efforts for the full implementation of the analysis.

<Status of Achievement of the Overall Goal at the Time of Ex-Post Evaluation>

At the time of ex-post evaluation, the Overall Goal has been partially achieved. The number of maternal deaths has increased in the Department or Oruro (Indicator 1). According to SEDES Oruro, the deaths have been mainly attributed to COVID-19 and other indirect factors that were not related to pregnancy, childbirth, or postpartum, but no detailed data were available. In the target Networks, there have been few deaths, which were caused by indirect factors and cases of pregnant women migrating from other networks. The data of both the neonatal mortality rate and the early neonatal mortality rate were not available, while those absolute numbers have increased in the Department of Oruro (Indicator 2). One cause is that the number of premature births has increased due to the limited prenatal control under the pandemic of COVID-19 in 2020 and 2021. Fewer efforts were made for neonatal emergency care during the COVID-19 pandemic, as there was only one intensive care unit in the Department of Oruro. Sepsis and asphyxiation were the main causes of death. The data of the children-under-5-mortality ratio were not available (Indicator 3), because the data of live births was not available. Although the number of deaths of children under 5 decreased or was stable from 2018 to 2022 in the target Networks, the number at the department level did not decrease due to indirect factors. On the other hand, the rates of children under 2 with acute and chronic malnutrition have drastically decreased (Indicator 4), as results of exclusive breastfeeding, complementary feeding, supervision, and comprehensive childcare. In addition, educational activities based on the Education for Life Guide have contributed to this achievement, according to SEDES Oruro. <0 the Impacts at the Time of Ex-Post Evaluation>

First, according to some interviewed municipalities, community authorities and residents have had more ownership of their health problems. By participating in community activities such as CAI and Education for Life, they have come to think of solutions for the problems. For example, child development methodologies have begun to be practiced as a routine activity at home, and mothers have become more confident in carrying their children to health centers for their growth and development checks. Second, women have got more positions in the community health authorities as they have gained knowledge and empowered from the project activities. In the municipalities of Caracollo and Poopó, 40% and 50% were women, respectively, although these positions had been occupied mainly by men.

## <Evaluation Result>

In light of the above, the effectiveness/impact of the project is ②.

Aim Indicators Results	Source
(Project Purpose) Indicator 1: Status of the Achievement (Status of the Continuation): M	
Maternal and child The fourth antenatal care in selected <u>achieved as planned (Not continued)</u>	Networks,
health care is health facilities increases since 2013: (Project completion)	municipalities.
improved with 1) Coverage: Number of pregnant • The coverage of the fourth antenatal care decreased	until
community women who completed 4 times of 2018, but the ratio increased from 2013.	
participation in the antenatal care / total number of expected Table: Coverage and ratio of the fourth antenatal cares	_
project sites (3   births * 100   2013   2015   2016   2017   2018	<del>- </del>
Health Networks of   2) Ratio: Number of pregnant women   1) Coverage   Azanak   NA   67.3   77.5   64.5   51.4	1
Azanake, Minera and who completed 4 times of antenatal care / e	_
Norte). number of women with 1st antenatal care Minera NA 68.8 64.6 69.9 67.	
before and after the 5 <sup>th</sup> month of Norte NA 90.4 86.7 89.0 85.2	<b>→</b> I
pregnancy * 100 Average NA 75.5 76.3 74.5 68.0	<del>-</del>
2) Ratio   Azanak   NA   56.8   66.5   63.	
Expected births: It is calculated by	
projection based on historical analysis.  Minera NA 56.8 63.2 68.6 76	<b>⇒</b>
This information is provided every year  Norte  NA 63.2 66.5 67.1 74.	5
by the National Institute of Statistics  Average 50.7 58.9 65.5 67.4 71.4	<u> </u>
(Ex-post Evaluation)  • Both the coverage and the ratio were decreasing. Table: Coverage and ratio of the fourth antenatal cares    2019   2020   2021   2022	
Indicator 2: Status of the achievement (Status of the Continuation)	
Institutional delivery in selected health <u>achieved (Partially achieved and continued)</u>	municipalities.

facilities increases since 2013: (Project completion) 1) Coverage: (Number of birth attended Both the coverage and the ratio were decreasing. in health facilities + number of attended Table: Coverage and raio of institutional deliveries at home by health personnel and skilled 2013 | 2015 | 2016 | 2017 birth attendant) / total number of 1) Coverage Azanak NA 80.0 73.2 77.7 expected births \* 100 2) Ratio: (Number of births attended in Minera NA 47.0 45.1 54.5 47.1 health facilities + number of births NA 77.1 74.7 64.3 Norte 74.0 attended at home by health personnel and NA 68.0 69.0 60.9 Average 64.1 skilled birth attendant) / total number of 2) Ratio Azanak NA 95.8 94.9 92.9 94.0 actually registered births \* 100 96.1 96.3 98.5 96.2 Minera NA Norte NA 89.9 85.0 85.2 82.3 Average 96.2 93.9 92.1 92.6 90.5 (Ex-post Evaluation) The coverage kept decreasing during and after the project. The ratio exceeded that of 2013 in 2019 and then slightly Table: Coverage and ratio of the fourth antenatal cares 2019 | 2020 | 2021 | 2022 1) Coverage Azanake 72.2 74.0 86.1 66.7 Minera 62.5 70.3 73.1 44.4 62.9 76.2 80.0 55.2 Norte 67.4 73.7 81.5 57.5 Average 2) Ratio Azanake 95.5 97.2 97.1 96.9 97.6 98.4 96.8 98.4 Minera 95.0 95.5 Norte 93.9 94.7 Average 95.9 96.5 96.4 96.7 Indicator 3: Status of the achievement (Status of the Continuation): Achieved PCR, The rate of first postnatal care increases as planned (Continued) municipalities. at selected health facilities since 2013: (Project completion) Number of women with first postnatal The rate of first postnatal care increased from 2013. care / (total number of live births in Table: rate of first postnatal care health in health facilities + live births 2013 2015 2016 2017 2018 attended at home by midwives and 98.7 99.6 100.0 Azanake NA others) \* 100 100.0 Minera NA 96.8 100.0 100.0 Norte NA 100.0 99.6 99.6 98.8 99.4 98.2 99.4 99.7 99.6 Average (Project completion) The rate of first postnatal care almost continued. Table: rate of first postnatal care 2021 2019 2020 2022 99.2 99.2 99.9 96.7 Azanake 99.4 98.9 98.2 98.7 Minera 99.5 99.8 98.8 95.6 Norte 99.7 99.0 99.3 Average 96.7 Indicator 4: Status of the achievement: Not achieved (Not achieved). PCR, The total number of growth and municipalities. (Project completion) development monitoring increases (new The number of growth and development monitoring and repeated) in children under 5 from decreased in the three Networks. 52,648 in Azanake Network, 16,299 in Table: Number of growth and development monitoring Minera Network and 29,189 in Norte 2015 2016 2017 2018 Network of 2015. Azanake 52,648 48,550 42,362 36,771 Minera 16,299 16,349 14,462 13,921 Norte 29,189 30,093 26,955 24,179 (Ex-post Evaluation) The number of growth and development monitoring decreased in three Networks. Table: Number of growth and development monitoring 2019 2020 2021 2022 Azanake 37,804 23,536 23,323 22,591 Minera 13,149 9,602 9,112 8,888 Norte 19,819 15,703 16,466 16,744 PCR. SEDES Indicator 5: Status of the achievement: Achieved as planned (Not verifiable). (Project completion) The total number of early child Oruro. The total number of early child development assessments development assessments (new and

	repeated) increases in children under 2			ee Networks			
	ased on official protocols.  Table: Number of early child development assessments  2018 2019		ments				
		Azanake	1,917	2,663	<u>.</u>		
		Minera	2,715	3,039	-		
		Norte	3,697	4,195			
		(Ex-post Evalu		hild develor	oment assess	sments were not	
		available	e				
		Table: Number				toring	
		Azanake	2020 N.A.	2021 N.A.	2022 N.A.	1	
		Minera	N.A.	N.A.	N.A.	1	
		Norte	N.A.	N.A.	N.A.		
	Indicator 6:	Status of the ac		: Achieved	as planned.		PCR.
	The competency study outcome of the operational and management, health	(Project Comp		parison of th	ne baseline s	survey and end-	
	personnel improve over the assessed					ors, nurses, and	
	result of the project baseline study.					was improved	
						The competency red compared to	
			the control		was improv	ea comparea to	
	Indicator 7:	Status of the ac		: Achieved	as planned.		PCR.
	The user's assessment about health care and others improves in comparison with	(Project Comp		varison of th	ne haseline (	survey and end-	
	the baseline study.					s and nurses was	
	•	improve					
	Indicator 8: Indicators of self-efficiency, social	Status of the ac (Project Comp		: Partially a	chieved.		PCR.
	capital and quality of life related to			arison of th	ne baseline s	survey and end-	
	health improve in communities where	line surv	ey, the self	f-efficiency	and social c	capital related to	
	activities with community participation were implemented.			he QOL was ets and Pygr		ed, probably due	
	Indicator 9:	Status of the ac				is.	PCR, Health
	The number of municipal health teams	(Project Completion)			Networks,		
	increases that improve municipal health management according to selected				municipalities.		
	criteria.	municipal health management increased in all three networks.					
(Overall Goal)	Indicator 1:				MOHS SNIS.		
Maternal and child (under 5 years old)	The number of maternal deaths decreases from 1):8, 2):8 in 2015.	(Ex-Post Evaluation)  • The number of maternal deaths in Oruro has increased to					
health situation is	1011 1).0, 2).0 III 2013.					n CMUE was	
improved in the	Data source: 1): MOHS SNIS (National	not avail		11.1			
Department of Oruro.	System of Health Information), 2): CMUD (Medical Certification of Death)	Table: Number	201		2020 20	021 2022	
		Oruro Departi		6 12	3	10 13	
		Azanake		0 0	0	0 0	
		Minera Norte		0 0	2	$\begin{array}{c c} 0 & 2 \\ \hline 0 & 0 \end{array}$	
	Indicator: 2	Status of the A	chievemen	-		0 0	MOHS SNIS.
	The neonatal mortality rate (early and	(Ex-Post Evalu	iation)				
	late) decreases (Number of neonatal deaths/total live births*1,000) from 1):			ıl mortality ı not available		ly neonatal	
	7.6, 2): 30.0, and the early neonatal			rmation> Th		of neonatal	
	mortality rate (Number of early neonatal	deaths ar	nd early ne	onatal death	s have incre	eased to 102 and	
	deaths/total live births*1,000) decreases from 1): 6.7, 2): 27.0 in 2015.	77, respective Table: Neonata		ta from MO			
	1011 1). 0.7, 2). 27.0 III 2013.	Table. Neonata	2018	2019		021 2022	
	Note: The target figure of 2) is divided	Oruro	74	79	79	73 102	
	by the number of live births of SEDES SNIS.	Department Azanake	3	2	5	4 3	
		Minera	0	1	1	2 3	
	Data source: 1): MOHS SNIS, 2):	Norte	2	1	0	5 1	
	CMUD, SEDES SNIS	Table: Early no			2020	2021 2022	
		Oruro Departi	ment 201	18 2019 65 53		2021 2022 52 77	
		Azanake		2 1		3 1	
		Minera		0 1	0	1 3	
	Indicator 2	Norte	ahia	2 0		3 0	MOHE CARE
	Indicator: 3	Status of the A	cmevemen	i. Noi verifi	auie.		MOHS SNIS

children-under-5-mortality (Number of deaths of children under 5 old/total live births\*1,000) decreases from 1): 12.6, 2): 41.0 in 2015.

Note: The target figure of 2) is divided by the number of live births of SEDES SNIS.

Data source: 1): MOHS SNIS, 2): CMUD, SEDES SNIS

#### Indicator: 4

Malnutrition prevalence rate (acute and (Ex-Post Evaluation) chromonic) decreases in children under 2: (Number of children under 2 with acute malnutrition/total number of children under 2) from 3.2% in 2016.

(Number of children under 2 with chronic malnutrition/total number of children under 2) from 14.8% in 2016.

(Number of children under 2 with acute malnutrition/total number of children under 2 assessed) from 4.1% in 2016. (Number of children under 2 with chronic malnutrition/total number of children under 2 assessed) from 18.3% in 2016.

#### (Ex-Post Evaluation)

- The data on the children under-5 mortality rate was not available.
- <supplemental information> The number of deaths of children under five years of age has increased since 2018, although in 2020 and 2021 there was a slight decrease.

Table: Number of deaths of children under 5

	2018	2019	2020	2021	2022
Oruro Department	139	141	124	112	189
Azanake	19	3	12	11	12
Minera	3	7	7	3	8
Norte	10	13	9	12	12

Status of the Achievement: Achieved as planned.

Both the numbers of children under 2 with acute and chronic malnutrition against the total number of assessed children under 2 have decreased.

MOHS SNIS

The data of children under 2 with acute and chronic malnutrition divided by the total number of children under 2 were not available.

Table: Number of children under 2 with acute malnutrition/total number of children under 2 assessed

	2019	2020	2021	2022
Oruro Department	-	0.7	0.5	0.5
Azanake	-	0.6	0.2	0.4
Minera	-	0.7	1.0	0.4
Norte	-	0.8	0.5	0.7

Note: The data of 2019 were not recorded from technical problems

Table: Number of children under 2 with chronic malnutrition/total number of children under 2 assessed

	2019	2020	2021	2022
Oruro Department	-	7.6	7.1	7.1
Azanake	-	8.5	7.4	7.5
Minera	-	9.3	10.6	9.3
Norte	-	3.9	3.8	4.7

Note: The data of 2019 were not recorded from technical problems of SNIS.

# 3 Efficiency

Although the project cost slightly exceeded the plan (the ratio against the plan: 105%) due to the combined factors, the project period was as planned (the ratio against the plan: 100%). Outputs were produced as planned.

	Project Cost (Japanese side only, yen)	Project Period (months)
Plan (ex-ante)	316 million yen	48 months
Actual	338 million yen	48 months
Ratio (%)	105%	100%

In the light above, the efficiency of the project is ③.

# 4 Sustainability

## <Policy Aspect>

Promotion of MCH services and nutrition has been prioritized in the "Sectoral Comprehensive Development Plan "2021-2025." <Institutional/Organizational Aspect>

The organizational structure of SEDES Oruro has been mostly sustained, including sections for MCH, biosafety, and planning (health management information systems (HMIS)). Relevant sections of SEDES Oruro have maintained the number of staff, and they have worked efficiently with the methodologies and tools developed by the project. The numbers of staff of the three target Health Networks in 2022 were 426, 229, and 291, respectively, which were more than those during the project period. Communication between the reference hospital and the first-level health facilities has been improved and sustained through the operation of CDC, according to SEDES Oruro.

### <Technical Aspect>

It is judged that the target Health Networks have sustained the knowledge and skills to promote MCH because they have conducted and managed documents of CAI, integral supervision, biosafety, and others, as observed in the ex-post evaluation. Also, it was confirmed that visited health facilities have continued MCH efforts strengthened by the project, such as biosafety and waste management, CAI, and reference/counter-reference. Necessary documents have been filed in an organized way. Each Health Network has sustained its CDC. CDC has annually developed the training plan for the health and management personnel based on the identified needs and submitted it to SEDES Oruro for implementation. Most of the manuals developed by the project have been utilized, except the "Local Guide of Education for Life" due to the limited community activities since the pandemic of COVID-19.

# <Financial Aspect>

Since the national emergency response to COVID-19 in March 2020 and the administrative change in May 2021, SEDES Oruro and the Health Networks have secured less budgets than before. However, it has conducted necessary MCH activities such as monitoring. Interviewed municipalities answered that they have allocated sufficient budgets for maintaining health activities and operating first and second-level health facilities.

<Environmental and Social Aspect>

No issue on environmental and social aspects has been observed so far. Waste management has been conducted without problems at health facilities. However, all municipalities have difficulty in transferring and depositing waste from the facilities to the municipal dumps or landfills, which have remained a risk to the environment. The only sanitary landfill is located in the capital city.

<Evaluation Result>

In light of the above, slight problems have been observed in terms of the financial aspect of the implementing agency. Therefore, the sustainability of the project effects is ③.

# 5 Summary of the Evaluation

The project partially achieved the Project Purpose of improving MCH care with community participation in the Department of Oruro, which has led to the partial achievement of the Overall Goal of improving MCH situation. Regarding sustainability, although the budget of SEDES Oruro and the Health Networks has decreased, there have been no issues in the institutional and technical aspects of sustaining MCH care.

Considering all of the above points, this project is evaluated to be satisfactory.

#### III. Recommendations & Lessons Learned

Recommendations for Implementing Agency:

- The integral supervision has been conducted in most municipalities, and the supervision guide developed by the project has been utilized. It is recommended to SEDES Oruro that review the guide and incorporate new issues such as the sexual and reproductive health and children and adolescents in the guide to make the supervision further comprehensive.
- Regarding the medical waste transfer and deposit from the health facilities, SEDES Oruro should monitor the impact on the people and the environment and discuss with the Department Government and municipalities for developing the waste treatment system.

### Lessons Learned for JICA:

- In this ex-post evaluation, the absolute numbers of maternal, neonatal, and under-five mortality were available from HMIS. However, the accurate mortality ratios could not be confirmed because the numbers of live births (denominator of the ratio) were not appropriately managed. Usually, the number of death cases is reported by each health facility or hospital, but the data are not necessarily complete. Therefore, it was difficult to calculate the ratio in the ex-post evaluation. In MCH projects which aim to improve their health conditions, it is necessary to carefully examine HMIS of the country at the project formulation stage. If there is any concern about HMIS, it is better to avoid the indicators of mortality ratios for verification of the Overall Goal. It is better to confirm the absolute number of deaths among the absolute number of reported live births because some births or deaths are possibly not reported.
- Through the project activities, women were empowered and got positions in the community health authorities. Specifically, as per the Local Guide to Education for Life, community activities were implemented by promoting women's participation, including the identification and analysis of health and education needs of individuals, families, and communities. Also, the role of women in the family became visible in the analysis. Experiencing these activities, women came to understand the issues and solutions. Thus, in projects which aim to empower women, it is important to actively involve women in activities for situational analysis so that they can understand issues and their roles and think of solutions. Understanding how they are related to the issues and what they can do to solve the issues is one of the keys to their empowerment.



Early childhood development evaluation at the Huari Health Center (Santiago de Huari Municipality, August 2023)



Internship at the CDC in the San Andres Hospital (Caracollo Municipality, August 2023)