

#### Chapter 12

Summary form

**EIA Cielos DE TARAPACÁ** 

November 2014

#### Chapter 12

#### Summary tab

#### EIA Photovoltaic Park Cielos de TARAPACA

In accordance with article 18, letter N), of D. S N  $^{\circ}$  40/2012 regulation of the Environmental Impact Assessment System (RSEIA), and with the purpose of facilitating the control referred to in article 64 of Law n  $^{\circ}$  19,300 of 1994 amended by law 20,417 of 2010, the following are the tabs in which the contents are summarized:

- Description of the project or activity.
- Prediction and evaluation of the environmental impact of the project.
- Antecedents justifying the effects, characteristics or circumstances of article 11 of the law which give rise to the need to develop an EIA.
- Mitigation, reparation and compensation measures Plan.
- Contingency and emergency prevention Plan.
- Follow-up Plan.
- Compliance Plan for applicable environmental legislation.
- Voluntary environmental commitments.

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### File A. Project description

A. 1 Identification of the holder and his parent company, if any, as well as his legal representative, if applicable, indicating his domicile.

	T	
Social Reason	Cielos de TARAPACÁ Spa	
R.U.T.	76.365.279-3	
Business Spin	Generation in other NCP stations	
Home	Av. Presidente Errázuriz 3943, Las condes	
City	Santiago	
Region	Metropolitan	
Phone	+ 56 (2) 26538400	
Legal representative	Juan Andrés Camus Valdés	
R.U.T.	15.382.153-4	
Home	President Errázuriz 3943. Las Condes	
City	Santiago	
Region	Metropolitan	
Phono	+ 56 (2) 6538400	
Email	Jcamus@valhallaenergia.com	

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Project name	"Photovoltaic Park Heavens Of Tarapacá"
Brief description	The project consists in the construction and
	operation of a photovoltaic park (PFV) With An
	approximate installed power of 600 MWac, to
	provide electric power to the hydro-electric
	pumping plant project with seawater "Mirror of
	Tarapacá" And to the large North interconnected
	system (SING)
General purpose of the project	Contribute to the expansion of the energy
	matrix based on Ncre, through the construction
	and operation of a solar park.
Typology of the project, as well	Electrical transmission lines and substations.
as of its parts in accordance	Power generating plants greater than 3 MW.
with article 3 of the Regulation	Execution of works, programs or activities in
	national parks, national reserves, natural
	monuments, reserves of Virgin areas, nature
	sanctuaries, marine parks, marine reserves or in
	any other area placed under official protection,
	in Cases where the relevant legislation allows it
	to be.
Estimated amount of investment	1,000 Millions of dollars used, roughly.
Project Lifetime	The useful life of the project is indefinite, this
	means that while there is a strategic and
	economic justification for the renovation of
	equipment, the photovoltaic park can continue
	to operate with the corresponding maintenance.

# A. 2 General background

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### A. 3 Location

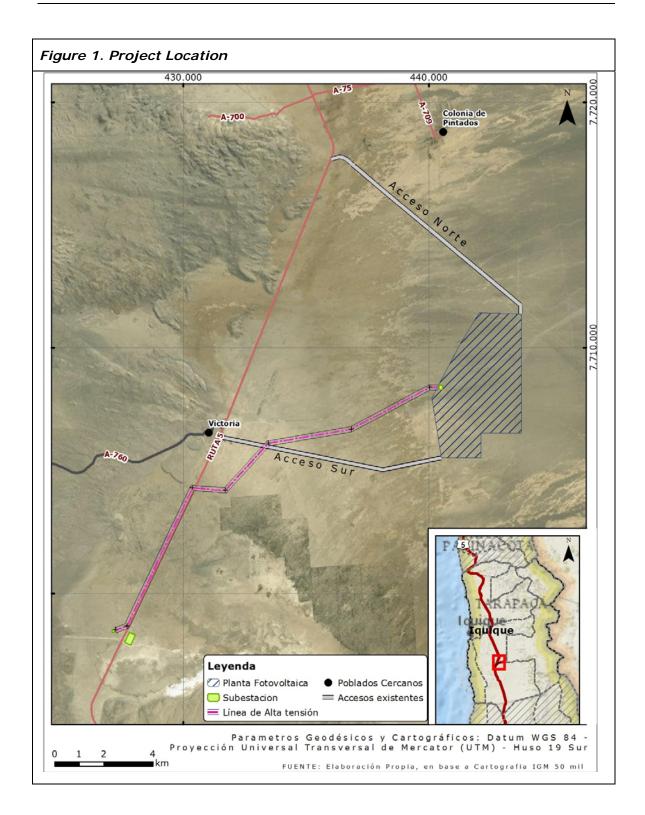
	1		
Administrative political division	The	project is located in the re	egion of Tarapacá,
at Regional, Provincial and	EI T	amarugal province, in Poz	o Almonte, 53 km
communal level	fron	n the urban area of Pozo A	lmonte and 88 km
	fron	n Iquique.	
Cartographic representation in	See	Figure 1.	
Datum WGS84			
Total area comprised of the	The	total surface is 1.705 Has	
project	ID	work	Surface (ha)
	1	Photovoltaic park <sup>1</sup>	1.615
		Transmission line (18 km)	
	2	and security strip(50 m)	90
	3	Elevadora substation	2,51
	4	Seccionadora substation <sup>2</sup>	4,24
	5	Exterior road <sup>3</sup>	14,80
		Surface	1.726,55
Access roads to the project	Nort	th Access: Via Route 5,	from an existing
	deto	our located 2.7 kilometers	south of route A-
	75.		
	Sou	th Access: You arrive on	a road from the
	forn	ner Victoria office, locate	d at 300 meters
	арр	roximately south of the ju	inction with route
	A-70	60, heading east	
Justification of the project	Favo	prable results of solar radia	ation corroborated
	by		National Energy
	Com	nmission and the Ge	erman Technical
	coop	peration (GTZ), within the	framework of the
	proj	ect "Non-conventional ren	ewable energies".
	The	se solar radiation values	are within the
	1		
	high	nest in the world, wh	ich justifies the
		nest in the world, wh allation of a solar park in th	-



It is close to the energy demand centers.
Topographical conditions make the site ideal for
the emplacement of photovoltaic modules.

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Main works		Photovoltaic Park
		Elevator substation (SEE).
		High Voltage electrical transmission line (LAT).
		Disconnecting substation (connection to the
		project "Mirror of Tarapacá").
		Roads.
Permanent	complementary	Monitoring Towers (2)
works	complementaly	Wineries
WOLKS		Wastewater Treatment Plant
		Installation of tasks
Temporary	complementary	Temporary waste collection Area
works		Area of temporary collection of materials or
		supplies

# A. 4 Description of the parts and physical works that compose the project

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A. 5 COnstruction p		
Identification of the	Phase I (200MW)	<ul> <li>Land preparation and Access roads</li> <li>Installation of slaughter and camp</li> <li>Network Enabling Connection paths</li> <li>Installation of the perimeter fence of the photovoltaic park</li> <li>Enabling of Material download and storage areas</li> <li>Structural and electrical installation (panels and assembly of structures)</li> <li>Construction LAT</li> <li>Construction substations</li> <li>Construction Control Room and operations</li> <li>Connection tests</li> </ul>
parts, works and actions associated with this phase	Phase II (200MW)	<ul> <li>Land preparation and Access roads</li> <li>Network Enabling Connection paths</li> <li>Structural and electrical Installation</li> <li>Connection and start-up</li> </ul>
	Phase III (200MW)	<ul> <li>Land preparation and Access roads</li> <li>Network Enabling Connection paths</li> <li>Structural and electrical Installation</li> <li>Connection and start-up</li> <li>Closing of the construction phase</li> </ul>
The estimated date	Commencement	August 2020 The construction phase will be
and indication of the	of construction	terminated.
part, work or action	phase activities:	
established by the	November 2015	
Start and end of the	Start work:	
phase	Installation of	
	Operations	
Schedule of the main		

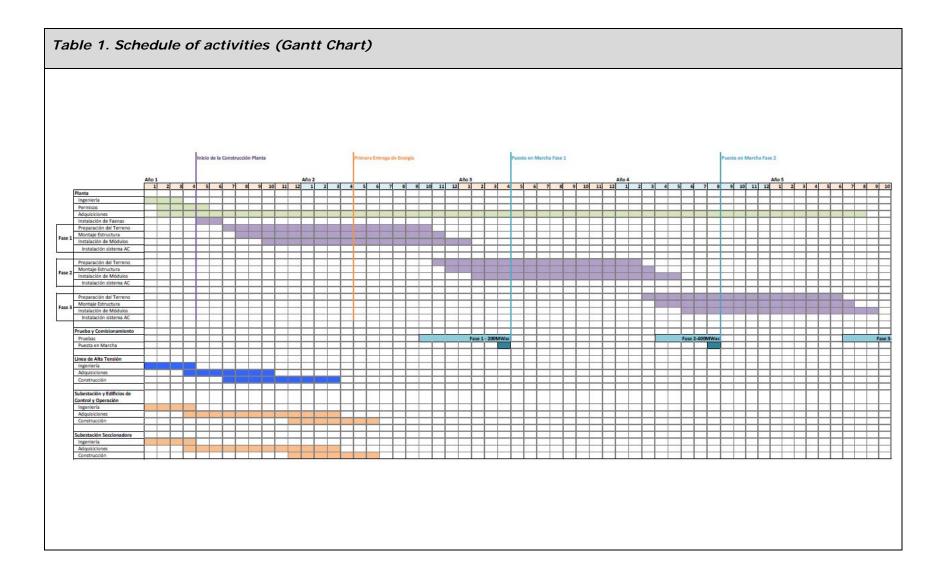
### A. 5 Construction phase Description

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works and actions	See attached Gantt chart
associated with this	
phase	

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Labor	A maximum staff	f of 600 people.
required		
Description of	Energy	Two (2) 100 Diesel Generator Sets Kva, one (1) 20
how basic	35	Generator set Kva (tasks) and one (1) Generator
supplies such		set 5 KW (for working front)
as energy,	Drinking water	By means of tank trucks purchased from the
water,		sanitary company for showers and sinks.
hygienic		Purified water dispensers will be available for use by
services, food,		workers.
transportation	Toilets	Hygienic services (sinks, bathrooms and showers)
, or others will		will be enabled.
be provided at	Power	A casino will be available
this stage.	Accommodatio	The project considers housing modules within the
	n	installation of operations consisting of containers
		duly adapted for the accommodation of workers
		during construction.
	Transport	By buses and vans
	Fuels	will be supplied by the distributor companies of the
		Regional market.
In case of	The extraction	does not apply
corresponding	or exploitation	
, the location	of renewable	
and quantity	natural	
of renewable	resources is	
natural	not envisaged.	
resources to		
be extracted		
or exploited		
by the project		
or activity to		
meet their		
needs.		
The emissions	Atmospheric	

of the project		Tab	la 2.Estimación d	le emisi	ones fas	e de con	strucció	ón del p	proyecto	)
or activity and										
the forms of		EMISIONES CONSTRUCCIÓN Emisiones (Ton/año)								
abatement		Período		PTS	MP10	MP2.	со	нс	NOx	SO <sub>x</sub>
and control				43,2	19,8	5	19,6	7,6	73,9	0,9
contemplated		Fas	e 1 - Año 1	7	5	7,52	6	4	1	0
		Fas	e 1 - Año 2	12,8 1	5,19	1,46	3,39	1,2 5	12,8 6	0,2 0
		Fas	e 2 - Año 3	43,2 5	20,0 8	7,70	20,3 1	7,5 3	77,1 7	1,1 7
		Fas	e 2 – Año 4	12,8 4	5,20	1,46	3,39	1,2 5	12,8 6	0,2 0
		Fas	e 3 - Año 5	42,9 9	20,0 0	7,69	20,3 1	7,5 3	77,1 6	1,1 7
		Fas	e 3 - Año 6	12,7 5	5,17	1,46	3,39	1,2 5	12,8 6	0,2 0
	Acoustic									
	Tabla 3: Evaluación según D.S. N°38 del MMA. Etapa de con (Periodo diurno)			de con	strucció	n				
		Punto	Nivel proyect Aporte exclu [dB(A)].		P Per	PC máxin permitido iodo diu	o rno		uación s 5. Nº 38 MMA.	-
		1	35			[ <b>dB(A)]</b> . 55			Cumple	
		2	0			64			Cumple	
		4	47			61			Cumple	
		F1 F2	69 43			85 85			Cumple Cumple	
		Tabla 4: Evaluación según D.S. Nº38 del MMA. Etapa de construcción (Periodo nocturno).					n			
					NP	C máxim	0			
		Punto	Nivel proyect Aporte exclus		permi	tido Per	iodo		uación s 5. Nº 38	0
		Funto	[dB(A)].	5100		diurno dB(A)].		D.3	MMA.	uei
		1	35			50			Cumple	
		2	0			47			Cumple	
		4 F1	47 69			50 85			Cumple Cumple	
		F2	43			85			Cumple	
	Energy and	does n	lot apply							
	radiation									
The quantity	Household	18 Mo	onthly tons	s tha	t wil	l be	store	ed ir	n a	Area
and	Solid Waste	Tempo	orary collec	tion i	n con	taine	rs Du	ly si	gnpo	sted.
management		These	wastes v	vill k	be re	emove	ed p	erioc	lically	y by
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of waste,		specialized companies.
chemicals and	Non-hazardous	A temporary collection area or salvage patio is
Other	industrial waste	envisaged; The transport and final disposition of
substances		these wastes will be carried out through an
that may		authorized company
affect the	Hazardous	SE projects a temporary collection area whose
environment.	industrial waste	characteristics are aligned with the specifications set
		out in the Sanitary regulations on hazardous waste
		management, D. S No. 148/04.
	Water served	Liquid effluents, of sanitary services, will have a
		plant of treatment of the modular type.

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Identification of the	Photovoltaic	The Cielos de Tarapacá Photovoltaic
		·
parts, works and	plant	Park will begin to operate when the
actions associated		infrastructure for the connection of the
with this phase		project, i.e. the high voltage line and
		the substations, is installed and
		operating.
	Substation	You will not have your own permanent
	operation	staff. This will be monitored and
		remotely commanded from the Office
		of Operations, through
		telecommunications links via optical
		fiber and microwaves and by the
		park's maintenance staff.
	Operation Lat	Annual terrestrial routes for the visual
		inspection of the conductors, the
		structures and the suspension and
		anchorage assemblies of the
		structures, these will be carried out
		once a year, for a period of 2 months,
		or any notice of third parties.
	Maintenance	Throughout the project's useful life,
		operation and maintenance personnel
		and external personnel, if necessary,
		will carry out preventive and non-
		scheduled maintenance activities;
		Which will be planned in advance
		according to the manufacturer's
		specifications. They are also
		considered within the Activities
		emergency repairs which by their
	It is estimated U	nature are not programmed.
The estimated date	TT IS estimated th	at in November 2016 The first energy

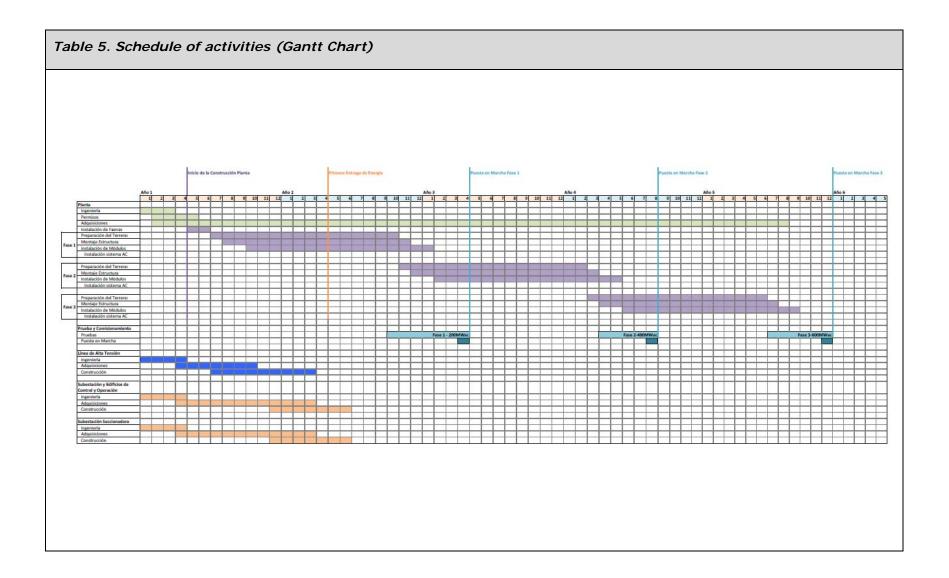
## A. 6 Description of the operation phase

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and indication of the	delivery is done.
part, work or action	The project has an indefinite duration.
that establishes the	
beginning and end of	
the phase	
Schedule of the main	
works and actions	See attached Gantt chart
associated with this	
phase	

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·	For the activities	of operation and preventive maintenance of
		or operation and proventive maintenance of
t t	he project will re	equire full-time staff of 10 people on average,
b	peing able to rea	ch a maximum of 20 people, formed by plant
0	operators, maint	tenance technicians and managers of Site
S	Security	
Maintenance and T	Throughout the	e project's useful life, operation and
conservation activities n	maintenance per	sonnel and external personnel, if necessary,
indicating those w	will carry out p	preventive and non-scheduled maintenance
aspects considered a	activities; Which	will be planned in advance according to the
for the general n	manufacturer's	specifications. Emergency repairs are also
activities c	considered withir	the activities which by their nature are not
p	programmed.	
P	Preventative Mai	ntenance: The maintenance only consists of
p	ounctual works t	hat go from a few hours or a few days in a
g	given month, ar	nd includes topics such as: maintenance of
а	areas, maintenan	ce of electrical and power equipment.
С	Corrective Mainte	enance: Corrective Maintenance is a response
te	o unscheduled	events that require special support, such as
а	anomalies detect	ed in preventive maintenance, repairs against
fa	ailures that com	promise the continuity of the service, these
а	are handled cas	e by Case with appropriate resources. The
ir	nterventions per	formed can be with or without service cut.
Description of how		The required electrical power will be self-
basic supplies such as	Energy	supplied during the day. At night, it will be
energy, water,	licigy	provided by extracting the energy through
services will be		the plant substation.
provided at this stage	Drinking water	Drinking water intended for consumption
Hygiene, food,		shall be provided by dispensing machines
transportation, or		with a bottles of 20 litres, service to be
other similar		provided by an undertaking with the
		respective permits.
	Health service	In this phase, there will be permanent
		facilities for health services, Intended for the
		use of operation and maintenance
		personnel. These facilities shall be composed

		of bath, sink and shower and shall be
		•
		maintenance building and its quantity shall
		be that established in article 23 of the DS N
		° 594/99.
	Power	A dining room/kitchen will be available in the
		O&M building which will be isolated from any
		source of contamination. It will also be
		equipped with potable water.
	Transport	It is estimated that the trips in the operation
		of the project, will consist mainly the
		transfer of personnel for maintenance of the
		photovoltaic park and the substations, in
		addition to the transfer of inputs, when it is
		necessary.
	Fuels	The project does not envisage fuel
		requirements in the park during the
		operation phase.
	Other inputs	For the process of washing panels (cleaning
		the modules), it has been considered that
		this process is carried out four times a year,
		for this is considered a requirement of 9,826
		m3 of low mineral water for annual
		maintenance, in case it is not feasible to
		implement L A dry cleaning. Water will be
		purchased through suppliers with extraction
		permits.
In case of	During the oper	ation phase the need for extra or exploiting
corresponding, the		s is not anticipated
location and quantity		
of natural resources		
Renewable to be		
extracted or exploited		
by the project or		

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activity to meet your										
needs.										
		1								
The emissions of the	Atmospheric									
project or activity and		Tabla 6.	Estimació	on de el	misione	s fase d	e oper	ación d	lel proy	vecto
the forms of				EMI	SIONES	OPERA	CIÓN			
abatement and		TIPO DE	FUENTE		Emisio	nes (Tor	n∕año)			
control contemplated				PTS	MP10	MP2.5	со	нс	NOx	SOx
		Total er	nisiones	8,24	3,11	0,31	0,03	0,01	0,12	0,00
	Acoustic									
		Tat	ola 7: Eval		-	eriodo di	iurno).		ase de	
		Punto	Nivel pr Aporte d [dB	-	vo	NPC má permi Periodo [dB(A	tido diurno	se	Evaluad gún D. 8 del N	S. N°
		1		15		55			Cump	
		2		0 21		64			Cump Cump	
		F1	(	51		85			Cump	le
		F2	ola 8: Eval		-		38 del I		Cump	
			ola 8: Eval o Nivel pr Aporte o	luación operaci oyecta	do		38 del I cturnoj iximo tido diurno	). I se		ión S. Nº
		Tat	ola 8: Eval o Nivel pr Aporte e [dB	luación operaci oyecta exclusi	do	D.S. N°3 riodo noo NPC má permi Periodo	38 del I cturnoj iximo tido diurno 4)].	). I se	ase de Evaluac	ión S. Nº IMA.
		Tat           Punto           1           2	Nivel pr Aporte e [dB	luación operaci oyecta exclusi (A)]. 50 47	do	D.S. N°3 riodo nor NPC má permi Periodo [dB(4 55 64	38 del I cturnoj iximo tido diurno 4)].	). I se	ase de Evaluac gún D. 8 del M Cump Cump	ión S. N° IMA. Ie Ie
		Tab           Punto           1           2           4	Nivel pr Aporte e [dB	luación operaci exclusi (A)]. 50 47 50	do	D.S. N°3 iodo noo NPC má permi Periodo [dB(# 55 64 61	38 del I cturno iximo tido diurno \)].	). I se	ase de Evaluac gún D. 8 del M Cump Cump	sión S. N° IMA. Ie Ie
		Tat           Punto           1           2	Nivel pr Aporte e [dB	luación operaci oyecta exclusi (A)]. 50 47	do	D.S. N°3 riodo nor NPC má permi Periodo [dB(4 55 64	38 del I cturnoj iximo tido diurno 4)].	). I se	ase de Evaluac gún D. 8 del M Cump Cump	ión S. Nº IMA. Ie Ie Ie
The quantity and	Household	Tab           Punto           1           2           4           F1	Nivel pr Aporte ( [dB 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	luación operaci oyecta exclusi (A)]. 50 47 50 51 25	do	D.S. N°3 riodo nor Periodo [dB(4 55 64 61 85 85	38 del I cturno iximo tido diurno \)].	). se 3	Evaluace gún D. 8 del M Cump Cump Cump Cump	ión S. Nº IMA. Ie Ie Ie
The quantity and management of	Household Solid Waste	Tat           Punto           1           2           4           F1           F2	Nivel pr Aporte e [dB 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	luación operaci oyecta exclusi (A)]. 50 47 50 51 25 pera	do vo	D.S. N°3 iodo noo NPC má permi Periodo [dB(# 55 64 61 85 85 85 phas	38 del I cturno iximo tido diurno A)].	). se 3	ase de Evaluac egún D. 8 del M Cump Cump Cump Cump Cump Cump	ión s. Nº IMA. le le le le le
1 5		Tab           Punto           1           2           4           F1           F2           For	Nivel pr Aporte d [dB 2 2 2 7 he o ation o	oyecta exclusi (A)]. 50 51 25 pera of 60	do realizado de la companya de la compan En companya de la company	D.S. N°3 riodo nor permi Periodo [dB(# 55 64 61 85 85 85 phas g/mor	as del l cturno iximo tido diurno A)]. e A	n e	ase de Evaluac gún D. 8 del M Cump Cump Cump Cump cump estim	ión s. N° IMA. Ie Ie Ie Ie Iated
management of		Punto 1 2 4 F1 F2 For T genera of the	Nivel pr Aporte d [dB 2 2 2 7 he o ation o	luación operaci exclusi (A)]. 50 47 50 51 25 pera of 60 raste	do realizador (Per realizador de realizador de Realizador de realizador	D.S. N° 3 riodo nor permi Periodo [dB(4 55 64 61 85 85 85 phas g/mor II be	as del l cturno iximo tido diurno A)]. e A nth. sin	n en the nilar	ase de Evaluac gún D. 8 del M Cump Cump Cump Cump Cump cump cump to	ión s. N° IMA. Ie Ie Ie Ie Iated
management of waste, chemicals and		Punto Punto 1 2 4 F1 F2 For T genera of the descril	Nivel pr Aporte o [dB 2 2 The o ation o	oyecta exclusi (A)]. 50 47 50 47 50 51 25 pera of 60 raste r the	tion (Per	D.S. N°3 riodo nor Periodo [dB(/ 55 64 61 85 85 9 phas g/mor II be structi	as del l cturno tido diurno diurno A)]. e A nth. sin	n en hase	ase de Evaluac gún D. 8 del M Cump Cump Cump Cump cump estim han to	sión s. N° IMA. le le le dling that
management of waste, chemicals and other substances that	Solid Waste	Punto Punto 1 2 4 F1 F2 For T genera of the descril	Nivel pr Aporte d [dB 2 2 2 7 he op ation c ese w bed for	luación operaci oyecta exclusi (A)]. 50 51 25 pera of 60 vaste: r the al so	do (Per do vo r tion DO Kç cons ollid w	D.S. N°3 iodo nor permi Periodo [dB(/ 55 64 61 85 85 phas g/mor II be structi /aste	as del l cturno tido diurno A)]. e A nth. sin on p geno	n e The hase	ase de Evaluac gún D. 8 del M Cump Cump Cump Cump Cump cump cump cump cump cump cump cump c	ión s. N° IMA. Ie Ie Ie Ie Ie Iated dling that
management of waste, chemicals and other substances that may affect the	Solid Waste Industrial	TatePunto124F1F2ForGenerationofthethein	Nivel pr Aporte o [dB 2 2 2 6 2 2 6 2 2 6 2 2 7 1 6 0 2 2 7 1 6 0 2 2 7 1 7 1 8 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	oyecta exclusi (A)]. 50 47 50 51 225 pera of 60 vastes r the al sc of the	tion (Per tion L tion Kg s wi cons	D.S. N°3 riodo nor permi Periodo [dB(/ 55 64 61 85 85 phas g/mor II be structi /aste ject \	as del l cturno iximo tido diurno A)]. e A nth. sin on p gene will t	n e The hase erate	ase de Evaluac gún D. 8 del M Cump Cump Cump Cump Cump cump cump cump cump cump cump cump c	iión s. Nº IMA. Ie Ie Ie Iated dling that
management of waste, chemicals and other substances that may affect the	Solid Waste Industrial	TatePunto124F1F2For Tgeneraof thedescrillThe inthis plspare	Nivel pr Aporte o [dB 2 2 2 6 2 2 6 2 2 6 2 2 7 1 6 0 2 2 7 1 6 0 2 2 7 1 7 1 8 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	luación operaci exclusi (A)]. 50 47 50 51 25 pera of 60 vaste r the al so of the cab	tion (Per tion L tion Kg s wi cons	D.S. N°3 riodo nor permi Periodo [dB(/ 55 64 61 85 85 phas g/mor II be structi /aste ject \	as del l cturno iximo tido diurno A)]. e A nth. sin on p gene will t	n e The hase erate	ase de Evaluac gún D. 8 del M Cump Cump Cump Cump Cump cump cump cump cump cump cump cump c	iión s. Nº IMA. Ie Ie Ie Iated dling that
management of waste, chemicals and other substances that may affect the	Solid Waste Industrial	TatePunto124F1F2ForForTgenerationofthetheinthisplowque	Nivel pr Aporte o [dB 2 7 he o ation o ese w bed for ndustria hase o parts,	oyecta exclusi (A)]. 50 47 50 50 47 50 47 50 47 50 50 47 50 50 47 50 50 47 50 50 47 50 50 47 50 50 51 50 50 51 50 50 51 50 51 50 51 50 50 51 50 50 51 50 50 51 50 50 51 50 50 51 50 50 51 50 50 51 50 50 50 51 50 50 50 50 50 50 50 50 50 50 50 50 50	tion (Per tion tion 00 Kg s wi cons olid w e pro les, a	D.S. N°3 iodo noc NPC má permi Periodo [dB(/ 55 64 61 85 85 phas g/mor II be structi /aste ject \ amon	as del l cturno tido diurno diurno A)] e A nth. sin on p geno will k g ot	n e nilar hase pe C hers	ase de Evaluac gún D. 8 del M Cump Cump Cump Cump Cump cump cump cump cump cump cump cump c	ión s. N° IMA. le le le dling that dling d by very

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	a site specially authorized to be then
	arranged in dumps approved or well
	recycled, depending on the nature of the
	waste.
Water served	In the operation of the project, the
	wastewater generated will be the product of
	the operation and maintenance activities
	carried out to the photovoltaic park.
	Permanent health Service facilities for the
	use of staff shall be counted; These facilities
	will be composed by bathroom, sink and
	shower and will be located in the operation
	and maintenance building.
	For wastewater treatment, a modular
	aerobic digestion treatment plant will be
	used.
Effluents	The only industrial liquid residue that can be
Liquids	generated during the operation phase can
Industrial	come from the cleaning of the modules,
	which will be carried out two to four times a
	year with demineralized water (without
	detergents). If soil and dust conditions
	permit, dry cleaning will be done to
	eliminate the need for water use during the
	cleaning of the modules.

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## A. 7 Closing Phase description

Dismantle or ensure the	The lifespan of the project is indefinite. This is
stability of the	achieved through the continuous renovation of the
infrastructure used by the	equipment according to the inspection and
project or activity	maintenance programs and the incorporation of
	technological innovations.
	In the event that a phase of abandonment of the
	project is considered or necessary, all the legal and
	environmental requirements in force will be fulfilled,
	the mechanical and other elements will be removed in
	disuse, they will be transferred for reuse, recycling or
	they will be available. In accordance with the
	regulations in force at an authorized location.
Restore the Geoforma Or	All constructions that are feasible to dismantle will be
Morforlogía, vegetation	dismantled. The concrete works will be demolished
and any other	and covered so that they are not seen in this way.
environmental component	All equipment and appliances that were used in the
that has been affected	project operation will be removed.
during the execution of	The cutting and handling of the small slopes will
the project or activity	continue as far as possible the dominant topography
	and the material removed during the field preparation
	activities for the followers, roads and works referred
	to in the project, shall be arranged uniformly on the
	Surface of the terrain in order to give continuity to the
	existing topography. This will keep the Geoforma Or
	morphology of the terrain, therefore, no significant
	restoration activities will be required.
	As for the restoration of flora and fauna, the site of
	the project is eminently desert, which reduces the
	number of possibilities of use. The form of intervention
	of the project, characteristics of the vegetation, the
	soil and the topography will allow in this case that all
	the terrain Available as it is today.
Prevent future emissions	It is anticipated that in the eventual phase of closure

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Noviembre 2014	Propiedad Intelectual queda prohibida su reproducción, total o	Página 22 de 67
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from the loca	ation of the	and abandonment, emissions of particulate matter and
project or a	activity, to	combustion gases will be of a low magnitude, as they
avoid affectat	tion of the	are restricted to the dismantling tasks of the facilities.
ecosystem	including	No emissions will be generated once the plant is
water, air and	soil	closed.
The	necessary	does not apply
maintenance	and	
supervision		

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Noviembre 2014	Propiedad Intelectual queda prohibida su reproducción, total o	Página 23 de 67
Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	



# A. 8 Possible risk or contingency situations identified, as set out in paragraph2 of title VI of this regulation.

In the Chapter, the contingency and emergency Plan for the project is detailed, where the following situations have been elaborated:

- Natural
  - ✓ Mass movements
  - ✓ Earthquake
- Anthropic
  - ✓ Spills
  - ✓ Fire
  - ✓ Traffic accidents
  - ✓ Use of equipment and heavy machinery
  - ✓ Dismantling of equipment.

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Noviembre 2014	Propiedad Intelectual queda prohibida su reproducción, total o	Página 24 de 67
Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	



File B. Analysis of the necessary antecedents to justify the nonexistence of the effects, characteristics or circumstances of article 11 of the law, which may give rise to an environmental impact study.

B. 1	Determination	and	justification	of	the	area	of	influence	or	activity,
incluc	ding an overview	/ of it								

Component	General description
Heritage	The area of influence defined for the Cultural heritage component, corresponds to the surface of the site of the works and activities associated with the construction and execution of the project, where elements of a patrimonial nature are recorded
Noise	The definition of area of influence (ADI) for the noise component is established according to the existence of human settlements or important ecosystems that may be affected by an increase in sound pressure levels due to construction, Operation and abandonment of the project.
	Because the stages under study may involve an acoustic impact on sensitive receivers near the project area, background noise measurements were performed within the project ADI, in six (6) points listed as sensitive receptors, where two (2) of which they were selected for being sectors of importance of fauna. For this we saw the realization of a campaign of measurements, which was carried out on the 23rd of October of 2014.
Air quality	Given the desert climate and the use of land in the sector, To analyze the area of influence focused on The main emissions associated with MP10 particulate matter, MP2, 5 and PTS. To be able to establish The ADI It is used as established in the primary air quality standards And The maximum and statistical concentration values for the MP10 and MP2 compounds, 5.
Fields Electromagnetics CEM	The definition of area of influence (ADI) for the component Cem It is established in terms of the existence of human settlements that could be affected by Electromagnetic radiation Because of the operation of the project. In Chile there is no regulation regulating the emissions of Electromagnetic fields, but in the current Chilean environmental regulation it is indicated that international references should be used to compare the permitted

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Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	J

	limits.
Landscape	In relation to the 'area of Influence For landscape, This is
	defined as all those portions of the territory that are part
	of the visual basins that allowed to characterize the
	landscape; And that will be modified or intervened
	directly by the works and/or activities of the project.
Human environment	According to the characteristics of the project, The area
	of influence has been defined As The potential significant
	alteration of the life and customs systems of human
	groups within the project's polygon and its immediate
	areas.
Terrestrial ecosystems	For terrestrial ecosystems The area of influence
	corresponds to those areas where the works and activities
	associated with the project could exert some kind of
	influence on the components flora and terrestrial
	vegetation and terrestrial fauna, both in the phases of
	Construction, operation and closure

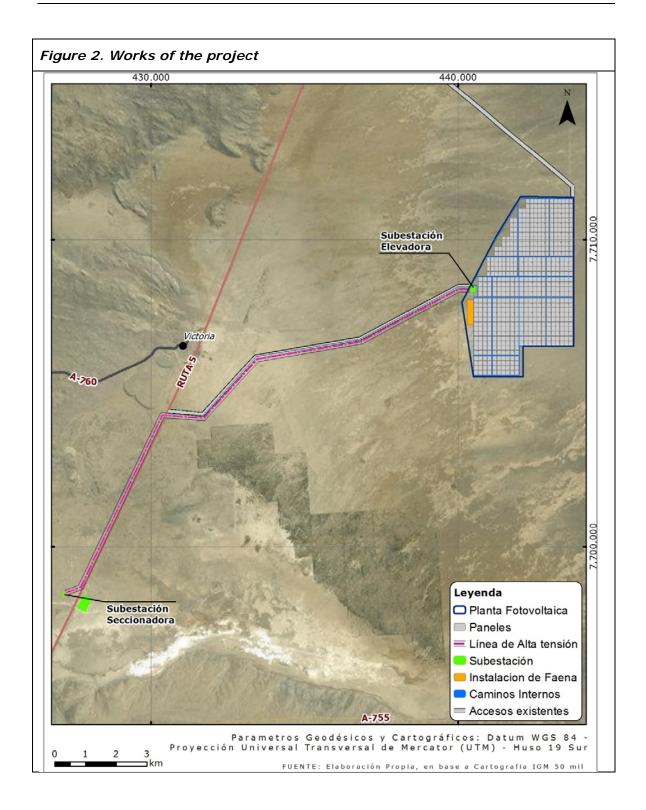
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Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	

# B. 2 Location of the project or activity, and if it corresponds to its main parts, works or actions.

Project Location	Technical aspect	Favorable results of solar radiation corroborated by monitoring of the National Energy Commission and the German Technical cooperation (GTZ), within the framework of the project "Non-conventional renewable energies". These solar radiation values are within the highest in the world, which justifies the installation of a solar park
		in this area.
	Constructive	Topographical conditions make the site ideal
	aspect	for the emplacement of photovoltaic
		modules.
	Access to the	It is close to SING's electric transmission
	mains	lines and high energy consumption centers.
Location Main	See Figure 2	
Works		
Location	See Figure 2	
Complementary		
Works		
Permanent		
Location	See Figure 2	
temporary		
complementary		
works		

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Noviembre 2014	Propiedad Intelectual queda prohibida su reproducción, total o	Página 28 de 67
Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	



B. 3 Location and quantification of renewable natural resources to be extracted or exploited by the project or activity to meet your needs.

The project will not extract and/or exploit renewable natural resources to meet your needs. This photovoltaic park will deliver energy, clean, renewable and free of emissions, to the interconnected system of the Norte Grande de Chile (SING), thus mitigating the problems of energy availability in this area, and helping to meet the objective of State to increase the percentage of electric energy from non-conventional renewable energies (NCRE).

VAL0005	Los contenidos que soporta el presente documento constituyen	
Noviembre 2014	Propiedad Intelectual queda prohibida su reproducción, total o	Página 29 de 67
Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	

#### B. 4 Project or activity emissions

Construction phase									
	Tabl	a 9.Estimación d	e emisi	ones fas	e de con	strucció	in del p	proyecto	
		E	мізіом	IES CON	STRUCC	IÓN			
	I	Período		Emisio	nes (Ton	i∕año)			
			PTS	MP10	MP2.5	со	нс	NOx	SOx
]   [	Fase	e 1 - Año 1	43,27	19,85	7,52	19,66	7,64	73,91	0,90
	Fase	e 1 - Año 2	12,81	5,19	1,46	3,39	1,25	12,86	0,20
	Fase	e 2 - Año 3	43,25	20,08	7,70	20,31	7,53	77,17	1,17
	Fase	e 2 – Año 4	12,84	5,20	1,46	3,39	1,25	12,86	0,20
	Fase	e 3 - Año 5	42,99	20,00	7,69	20,31	7,53	77,16	1,17
	Fase	e 3 - Año 6	12,75	5,17	1,46	3,39	1,25	12,86	0,20
	Tabla	10: Evaluación s		riodo di	urno)		de cor	istrucció	ón
		Nivel proyect	ado		PC máxin permitido		Evalu	uación s	egún
	Punto	Aporte exclus [dB(A)].	sivo	Per	iodo diu [dB(A)].	rno	D.5	5. N° 38 MMA.	del
	1	35 0			55 64			Cumple Cumple	
	4	47			61			Cumple	
	F1	69			85			Cumple	
	F2	43			85			Cumple	
	Tabla Punto	11: Evaluación s Nivel proyecta Aporte exclus [dB(A)].	(Peri	odo noc NP permi	turno). C máxim itido Per diurno	10	Evalu	uación s Nº 38 MMA.	egún
-	1	35		L	<b>dB(A)]</b> .			Cumple	
-	2	0			47			Cumple	
	4	47			50			Cumple	
	F1	69			85			Cumple	
	F2	43			85			Cumple	
Operation phase	Tab	ola 12.Estimación				-	n del pi	royecto	
			EMISI		PERACIÓ				
	115	PO DE FUENTE		Emisio	ones (Toi	1/ano)			

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		PTS	MP10	MP2.5	со	нс	NOx	SOx
Tot	tal emisiones	8,24	3,11	0,31	0,03	0,01	0,12	0,00
Tabl	la 13: Evaluación s	-	D.S. N°3 'iodo diu		/A. Fas	se de o	peració	ón
Punto	Nivel proyectad Aporte exclusiv [dB(A)].		p Peri	C máxim ermitido odo diur dB(A)].	no		luación S. Nº 3 MMA	38 del
1	15			55			Cump	le
2	0			64			Cump	le
4	21			61			Cump	le
F1	61			85			Cump	le
F2	25							
	25			85			Cump	le
Tabl	la 14: Evaluación s Nivel proyectad Aporte exclusiv [dB(A)].	(Perio	odo noct NP pr Peri	8 del MM	10	Eva		ón 1 segú 38 del
	la 14: Evaluación s Nivel proyectac Aporte exclusiv	(Perio	odo noct NP pr Peri	8 del MM turno). C máxim ermitido odo diur	10	Eva	peració luación S. Nº 3	ón n segú 38 del A.
Punto	la 14: Evaluación s Nivel proyectad Aporte exclusiv [dB(A)].	(Perio	odo noct NP pr Peri	8 del MM urno). C máxim ermitido odo diur dB(A)].	10	Eva	peració luación S. Nº 3 MMA	ón n segú 38 del 1.
<b>Punto</b>	la 14: Evaluación s Nivel proyectad Aporte exclusiv [dB(A)]. 50	(Perio	odo noct NP pr Peri	8 del MM urno). C máxim ermitido odo diur dB(A)]. 55	10	Eva	peració luación S. Nº 3 MMA Cump	ón n segú 38 del 4. ole
<b>Punto</b> 1 2	la 14: Evaluación s Nivel proyectad Aporte exclusiv [dB(A)]. 50 47	(Perio	odo noct NP pr Peri	8 del MM urno). C máxim ermitido odo diur dB(A)]. 55 64	10	Eva	peració luación S. N° 3 MMA Cump Cump	ón n segú 38 del 38 del 3.

VAL0005	Los contenidos que soporta el presente documento constituyen	
Noviembre 2014	Propiedad Intelectual queda prohibida su reproducción, total o	Página 31 de 67
Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	

# B. 5 Quantity and management of waste, chemicals and other substances that may affect the environment.

Household Solid	Tipo y cantidad de	residuos asimi	lables a domicilia	arios en fase de		
Waste	construcción					
	Тіро		Cantidad	(kg/mes)		
	Restos de alimentos		4.5	511		
	Papeles y Cartones		4.8	343		
	Plásticos		6.6	94		
	Vidrios		1.9	52		
	Total		18.	000		
	Tipo y cantidad de operación	residuos asimi	ilables a domicilia	nrios en fase de		
	Тіро		Cantidad	-		
	Restos de alimentos		10	)4		
	Papeles y Cartones		2	10		
	Plásticos		286			
	Total		60	600		
	Restos de alimentos Papeles y Cartones Plásticos Vidrios Total		8: 1.1 4:	96 21 62 20 000		
Industrial waste Non-hazardous	Residuos no peligroso Tipo	os generados en	fase de Construcc Cantidad(kg/n			
	nipo	Fase 1	Fase 2	Fase 3		
	Textiles	359	116	175		
	Gomas	719	233	351		
	Cerámicas	1.078	351	526		
	Latas	539	175	262		
	Maderas	216.320	70.211	105.317		

Restos de piezas	1.797	583	875		
Escombros	12.943	4.204	6.308		
Papeles y Cartones	45.428	14.759	22.138		
Plástico	5.048	1.640	2.460		
Total	284.231	92.273	138.413		
Residuos no peligroso	os generados en fase	e de operación			
Tij	Cantidad(kg	g/mes)			
Textiles			595		
Gomas		:	397		
Maderas		!	590		
Latas		1	.985		
Restos de piezas metál	cas	5	.958		
Aceite			47		
Papeles y Cartones			114		
Plástico			13		
То	tal	9.	699		
Residuos no peligroso Tip		-	ad(kg/mes)		
		8	829		
Textiles					
Textiles Gomas		1.	106		
			106 382		
Gomas		1.			
Gomas Cerámicas		1.	382		
Gomas Cerámicas Latas	ructuras	1 5 157	382 53		

	Papeles y cartones Plástico		34.945		
				3.883 <b>13.154.195</b>	
	Total	Total			
	Тіро		Cantidad(Uds.)		
	Módulos fotovoltaicos.			6.600.000	
Hazardous	Residuos Peligrosos de la fá	ase de constru	ucción		
industrial waste		Residuos Peligrosos de la fase de construcci			
	Tipo	Fase 1	Fase 2	Fase 3	
	Tóner de impresoras	7	3	5	
	Aceites usados	627	301	452	
	Baldes de aceites y lubricantes	28	13	21	
	Filtro de aceite usados	77	37	55	
	Envases de pinturas, solventes y barnices	93	46	67	
	Envases de aerosoles usados	7	3	5	
	Arena, aserrín u otro material absorbente.	56	26	39	
	Baterías	66	31	47	
	Pilas	5	3	3	
	Paños contaminados	75	36	54	
	Total	1.042	499	748	
	Residuos peligrosos generados en fase de operación				
	Тір	0		Cantidad(kg/mes)	
	Tóner de impresoras		3		
	Envases de aerosol usados		2		
	Baterías usadas		759		

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	Pilas usadas		8	
	Envases de refrigerante usados Paños contaminados		5	
	Tubos fluorescentes		16	
	Filtros de aire		16	
	Chatarra electrónica, computadores, etc.		16	
	Pintura, solventes, ácidos		2	
	Total		834	
	Residuos Peligrosos generados en la fase de construcción			
	Тіро	Cantida	ntidad(kg/mes)	
	Tóner de impresoras		3	
	Aceites usados		278	
	Baldes de aceites y lubricantes		13	
	Filtro de aceite usados		34	
	Envases de pinturas, solventes y barnices		42	
	Envases de aerosoles usados		3	
	Arena, aserrín u otro material absorbente.		24	
	Baterías		725	
	Pilas		3	
	Paños contaminados		33	
	Total		1.159	
Water served	For the stage of Construction is contemplated 60 M <sup>3</sup> /Day This will			
	be installed Two Plants of modular water treatment.			
	For the stage of operation is contemplated 2 m <sup>3</sup> /day, for this			
	purpose a reconditioned modular water treatment plant will be			
	used for the construction phase.			
	used for the construction phase.			

		is It will use a refurbished modular water treatment plant for the			
		construction phase.			
Industrial	Liquid	In the construction phase, liquid waste will be generated from the			
effluents		washing of machinery that is carried out in the yard maintenance			
		of machinery. By means of a collector grille placed on the contour			
		of the concrete floor and connected to a watertight chamber, the			
		residual water will be collected. Once the watertight chamber			
		reaches 80% of its capacity will be emptied by means of the			
		suction of its contents, which will be stored in solid containers			
		that will be transferred to the warehouse of hazardous wastes			
		temporarily for its subsequent handling, transport and Disposition			
		according to what ESTABLCE ds n ° 148/03.			
		The only industrial liquid residue that can be generated during the			
		operation phase can come from the cleaning of the modules,			
		which will be carried out two to four times a year with			
		demineralized water (without detergents). If soil and dust			
		conditions permit, dry cleaning will be done to eliminate the need			
		for water use during the cleaning of the modules.			

VALUUU5 Noviembre 2014	Los contenidos que soporta el presente documento constituyen	
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B. 6 In the event that the project or activity is install in, or in the vicinity of indigenous lands, indigenous development areas or indigenous peoples, the environmental impact declaration shall contain the antecedents justifying the absence of susceptibility of Affecting these towns located in the area in which the project or activity will be developed.

does not apply

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B. 7 Any other environmental information that the holder deems pertinent.

does not apply

VAL0005 Noviembre 2014	Los contenidos que soporta el presente documento constituyen	
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	parcial, por cualquier medio, en forma íntegra o extractada	

## C. Plan of compliance with applicable environmental legislation.

Standard	Article	Application phase	Form of Compliance	Compliance indicator
DS N °	19 N º 8	All phases	Submit Project to SEIA	Income and registration
100/2005				AI SEIA
Law n °	All	All phases	SEIA project entry, by	RCA Pro
19.300/199			day	
4				
D.SN°	All	All phases	In particular, enter the	RCA Pro
40/2013			SEIA as indicated in the	
			letter b), C and P) of	
			article 3 of this Decree	
DS N °	All	All phases	The project will comply	Presentation of a Auto
30/2013			with the provisions	Report, compliance
			relating to the Auto	program, and/or repair
			Report, in the unlikely	Plan in case of proceeding
			event of incurring any	
			infringement of the	
			competence of the	
			Superintendence of the	
			MA, and opting for this	
			way. Likewise,	
			compliance with the	
			provisions relating to	
			compliance programmes	
			and repair plans will be	
			complied with in the	
			unlikely event of a	
			sanctioning procedure	
			being initiated, and in	
			the event of opting for	
			one of these means of	
			settlement.	
DS N °	All	All phases	will be provided in a	Delivery of information as
31/2013			timely manner, the	appropriate
			Background, information	
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## C. 1 General environmental regulations applicable to the project

Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			and data required, being	
			an RCA holder.	
R. E N °	All	Obtained the	Providing timely, and in	
1.518/2013		RCA.	the form and manner	Sending the information
			established, the	to the SMA.
			information required in	to the SMA.
			its entirety	
R.e. N°	All	All phases	The required information	Sending the information
844/2012			will be provided with a	to the SMA
			periodicity and in the	
			form established in the	
			RCA, by writing in the	
			Environmental	
			Monitoring system	
R. E N °	All	All phases	Facilities will be	
276/2013			provided for	
			environmental control	Permit control activities
			activities, if any, and	and information delivery.
			providing the required	
			information.	
R.e. N°	All	All phases	Facilities will be	
277/2013			provided for	
			environmental control	Permit control activities
			activities, if any, and	and information delivery.
			providing the required	
			information	
<u> </u>	•		applicable to the activities of the	ne project
Air and atmo	-			
D. S N °	All	Construction	1. Speed restriction to	1. A log will be
144/1961		and operation	50 km/h.	maintained with the entry
			2. Moistening of roads.	and exit times of the
			3. Cover trucks	vehicles. Complies with
			containing excavation	the standard (or
			material with tarps.	compliance will be
			4. Seal that certifies the	verified) if at least 80% of
			fulfillment of the	the total measurements

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			emissions of the	reach the speed of the 50
			vehicles on site.	km/h
				2. An inspection will be
				carried out SawShual of
				all vehicles that leave
				with load of the work
				and/or plant, by way of
				verifying that the material
				is moistened and covered
				with tarpaulin; A log will
				be kept with that
				information. 100%
				Compliance indicator.
				3. A copy of the technical
				reviews and maintenance
				of the vehicles will be
				requested, to which they
				will be maintained in the
				work and/or plant. 100%
				Compliance indicator.
				4. All vehicles that
				circulate through the work
				and/or plant shall be
				required to be registered
				in the National Motor
				Vehicle Registry. Indicator
				of Compliance of 100%.
DS N °	2 °	Construction	Present the project to	The emissions declaration
138/2005			the SEIA	will be made annually
				from all those fixed
				sources. In this case a
				compliance indicator of
				100% is established
D.F. L N °	78 First	Construction	All motor vehicles	A copy of the technical
1/2007	subpara	and operation	participating in the	reviews and maintenance
	graph		project shall be required	of the vehicles will be

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Standa	rd	Article	Application	Form of Compliance	Compliance indicator
			phase		
				to comply with the law	requested, which will be
				indicated, which shall be	maintained in the work
				verified by the	and/or plant. In this case
				certificate of Technical	a compliance indicator of
				and gas inspection. In	100% is established
				the case of machinery	
				which does not require	
				the above-mentioned	
				certificate, permanent	
				Maintenance will be	
				required.	
D. S	N °	2	Construction	The transport of	A visual inspection will be
75/87				materials will be carried	carried out of all the
				out with the hopper or	vehicles that leave with
				load section covered	load of the slaughter
				with tarps, in such a	and/or plant, by way of
				way as to prevent the	verifying that the material
				dispersion of dust in the	is moistened and Covered
				atmosphere and the	with canvas; A log will be
				Runoff of materials in	kept with that
				the substrate.	information. In this case a
					compliance indicator of
					100% is established
D. S	N°	4, 8, 11	All phases	It will be verified that	
211/91		and 11		any motor vehicle	
		bis		registered in the	All vehicles that circulate
				National Motor Vehicle	through the slaughter
				Registry, has the	and/or plant are required
				adhesive seal and the	to be registered in the
				certificates that	National Motor Vehicle
				guarantee that they	Registry. In this case a
				comply with the	compliance indicator of
				maximum limits	100% is established
				established by the	
				Regulation.	
	N °	All	Construction	The technical review will	A copy of the technical

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
4/94		and operation	be kept up to date for	revisions to the day of the
			all motor vehicles	vehicles will be requested,
				which will be maintained
				in the work and/or plant.
				In this case a compliance
				indicator of 100% is
				established
D.SN°	All	Construction	1. The speed of	1. A log will be
47/92			circulation of trucks	maintained with the times
			between wind turbines	of entry and exit of the
			will be restricted to 50	vehicles, by way of
			km/h.	verifying the time used to
			2. The trucks carrying	traverse a defined
			the construction	distance. In this case a
			material shall comply	compliance indicator of
			with the corresponding	80% is established.
			provisions of the DS N $^{\rm o}$	2. A Visual inspection of
			75/87 of the MINTRATEL	all vehicles leaving with
			that establishes	load of the work and/or
			conditions for the	plant, in order to verify
			transport of loads, for	that the material is
			whose effects the	moistened and covered
			materials of construction	with tarp; A log will be
			will be duly moistened	kept with that
			and covered, in order to	information. In this case a
			control and to minimise	compliance indicator of
			the emissions of	100% is established.
			particulate material in	3. A copy of the technical
			the phase of	reviews and maintenance
			Construction.	of the vehicles will be
			3. Vehicles shall have	requested, to which they
			the technical revisions	will be maintained in the
			per day. The	work and/or plant. In this
			maintenance of the	case a compliance
			machinery will be	indicator of 100% is
			carried out according to	established.



Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			the manufacturer's	4. All vehicles that
			specifications, in	circulate through the work
			authorized mechanical	and/or plant are required
			workshops.	to be registered in the
			4. Any vehicle registered	National Motor Vehicle
			with the National Motor	Registry. In this case a
			Vehicle Registry after	compliance indicator of
			September 1, 1994, will	100% is established
			carry the seal proving	
			compliance with the	
			maximum limits of its	
			Emissions and those	
			who do not carry it will	
			not be admitted to the	
			Act. The inspection	
			Technical works will be	
			responsible for verifying	
			and requiring the	
			contractor to comply	
			with this obligation	
DS N °	1, 3, 4,	Construction	The technical conditions	A copy of the technical
54/94	6, 7,	and operation	and gas emissions of	reviews of the vehicles
	and 8		medium-sized motor	per day will be requested,
			vehicles shall be sought	which will be maintained
			to comply with this	in the work and/or plant.
			emission standard. In	
			the case of	indicator of 100% is
			subcontracting transport	established
			services, it shall be	
			expressly stated in the	
			contracts which are	
			subscribed to the	
			obligation to comply	
			with the provisions of	
			this standard, through	
			the certificate of	

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			technical review per	
			day.	
Noise pollut	ion			
D. S N °	1, 2 and	Construction	For this effect it was	Recording of
38/2011	9	and operation	done A In-depth study	measurements made in
			of the possible acoustic	the design phase of the
			impact during the	project in which it is
			construction and	demonstrated that this
			operation of the park	during its Construction,
			Solar. The conclusions	not exceed the maximum
			of this study indicate	limits set by the standard.
			that the project	
			complies with the	
			current regulations	
			regarding the maximum	
			emission levels of Noise.	
Water				
D.F. L N °	73	Construction	Construction phase:	Copy of contracts with
725/67		and operation	A total of 100 liters per	companies responsible for
			person of potable water	supplying drinking water
			will be available in the	for workers.
			slaughter plant,	Copy of the sanitary
			complying with the	authorization of the
			requirements of DS N °	company responsible for
			594/99 minsal. This	supplying drinking water.
			water will be acquired	
			through a sanitary	
			company that has the	
			authorization of the	
			health care of the region	
			of Tarapacá.	
			Operation phase:	
			The water for the	
			sanitary installations will	
			be provided by the	
			nearest authorized	

Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			health company,	
			transferred by means of	
			a tank truck and stored	
			in ponds.	
			Drinking water intended	
			for consumption shall be	
			provided by means of	
			dispensing machines	
			with a bottles of 20	
			litres, service to be	
			provided by an	
			enterprise that has the	
			permits Respective.	
D. S N °	12, 13,	Construction	Construction phase:	Construction phase:
594/99	14, 15,	and operation	The water to be used for	Copy of contract
	19, 21		human consumption	concluded with local
	and 24		shall be determined as	company in charge of
			indicated in DS No.	supplying the potable
			594/1999 minsal. A	water ponds.
			provision of 100	Record of the daily
			L/HAB./day shall be	attendance of workers to
			considered for	slaughter, to determine if
			consumption in hygienic	the amount of water is
			services and potable	sufficient.
			water. The water for	A copy of analysis that
			human consumption will	gives an account of the
			be provided by means of	physical and chemical
			potable water tanks or	characteristics of drinking
			purified, cold and hot	water.
			water dispensers, which	Operation phase:
			will be supplied by a	Record of the daily
			duly certified local	attendance of workers to
			company, complying	slaughter, to determine if
			with all the	the amount of water is
			physicochemical	sufficient.
			requirements,	A copy of analysis that

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Standard	Article	Application phase	Form of Compliance	Compliance indicator
		1.1.000	Radioactive and	gives an account of the
			bacteriological	physical and chemical
			provisions established in	characteristics of drinking
			the applicable	water.
			regulation, those	Copy of contract
			defined in the standard	concluded with company
			Of Nch 409/1 of. 05 on	responsible for supplying
			drinking water	drinking water.
			requirements.	
			Operation phase:	
			In the operation phase	
			Of the project it will be	
			necessary to supply	
			potable water for the	
			consumption of the	
			operators and for the	
			operation of the sanitary	
			installations. An average	
			demand of 100 liters of	
			water per person a day	
			is estimated, which	
			must comply with the	
			parameters of the Nch	
			N ° 409 Of 2005,	
			Potable Water-Part 1:	
			Requirements.	
			The water for the	
			facilities will be provided	
			by the nearest sanitary	
			company, transferred by	
			means of a tank truck	
			and stored in ponds.	
			Drinking water intended	
			for consumption shall be	
			provided by means of	
			dispensing machines	

VAL0005 Noviembre 2014

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Standard	Article	Application phase	Form of Compliance	Compliance indicator
		•	with a bottles of 20	
			litres, service to be	
			provided by a company	
			with the respective	
			permits.	
DS N °	All	All phases	Construction phase:	
735/69	/	All phases	Water for consumption	
(Modified by			Human will be provided	
D. S N °			by drinking water ponds	
10/94)			or purified, cold and hot	
10/24)			water dispensers, which	
			-	
			5	
			company, complying with all the	
			requirements	
			physicochemical,	
			radioactive and	Sanitary authorisation of
			Established in the	companies responsible for
			applicable regulation,	Provide potable water for
			which are defined in the	project facilities.
			standard Of Nch 409/1	
			of. 05 on drinking water	
			requirements.	
			Operation phase:	
			Drinking water intended	
			for consumption shall be	
			provided by means of	
			dispensing machines	
			with a bottles of 20	
			litres, service to be	
			provided by a company	
			with the respective	
			permits.	
Soil				
D.F. L N °	55	Construction	Is Will request the	Obtaining the permit

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Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	

Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
458/1975			change of land use in	described in article N $^{\circ}$
			the Terms of article No.	160 of the DS N $^{\circ}$
			55 of this law.	40/2012 MMA.
				Obtaining a favorable
				report from La remise
				MINVU.
				Obtaining the
				authorization of the
				agriculture.
				Plans showing the site
				affection for the CUS.
Flora and ve	-			
R.e. N°	All	Construction	During this phase, the	Comply with the
133/05			purchase of inputs, raw	requirements of SAG at
			materials and material	the time of its release in
			will be required. For the	customs. In this case a
			purchase of these	compliance indicator of
			goods, it will be	100% is established.
			necessary to import the	
			equipment, such as	
			conductors, insulators,	
			cables, electrical	
			equipment, etc., which	
			usually come in wooden	
			packaging, so it will be	
			strictly complied with	
			this resolution.	
Archaeologic			· · ·	
Law n °	21 and	Construction	The area where the	Obtaining the sectoral
17.288/70	26		project will be located,	environmental permit
and DS N °			is crossed in large	described in article N °
484/1990			amount of its extension	132 of the DS N °
			by caravan routes that	40/2012 MMA.
			date from the time in	Authorization of the
			which it is They	Council of Monuments
			developed nitrate	Nationals for "collection of

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			economic activities in	Findings" and "exhaustive
			the area, without	registration"
			prejudice to the	Copies of reports that
			likelihood that many of	account for the collection
			these correspond to pre-	of findings and exhaustive
			Hispanic routes.	registration.
			Because the project	Photographic registry of
			execution will affect	perimeter fencing.
			these routes. The holder	A copy of the notice given
			shall apply the following	to the Council of National
			compensation and	Monuments on the
			mitigation measures to	completion of the
			the impact:	perimeter fencing.
			Compensation	A copy of the notice given
			measures:	to the Council of National
			1. Collection of	monuments to eventual
			isolated findings, which	archaeological or
			correspond to movable	paleontological findings.
			property (earthenware,	
			bottles, among others	
			associated with	
			historical activities)	
			(PAS 132)	
			2. Exhaustive	
			register of real estate,	
			which would correspond	
			to linear traits (caravan	
			footprints, railway	
			lines), structures and	
			housing remains (PAS	
			132)	
			Mitigation measures:	
			1. Fencing of	
			movable and Real estate	
			that will not be directly	
			affected, but because of	



Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			its proximity to works or	
			activities of the project	
			require protection	
			during the construction	
			phase. This measure	
			does not require	
			permission, but should	
			be reported to the CMN.	
			Notwithstanding the	
			foregoing, if an	
			archaeological or	
			paleontological finding is	
			made, it shall be	
			proceeded according to	
			the provisions of articles	
			26 and 27 of this law,	
			that is to say, the works	
			on the working fronts of	
			the or the findings will	
			be paralyzed. ,	
			informing immediately	
			in writing and	
			telephonically to the	
			CMN.	
DS N °	All	Construction	The area where the	Obtaining the sectoral
484/1990			project will be located,	environmental permit
			is crossed in large	described in article N $^{\circ}$
			amount of its extension	132 of the DS N $^{\circ}$
			by caravan routes that	40/2012 MMA.
			date from the time when	Authorization of the
			they developed nitrate	Council of National
			economic activities in	Monuments for the
			the zone, without	"collection of Findings"
			Prejudice that many of	and "registration
			these are likely to	Comprehensive
			correspond to pre-	Copies of reports that

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			Hispanic routes.	account for the collection
			Because the project	of findings and exhaustive
			execution will affect	registration.
			these routes. The holder	Photographic registry of
			shall apply the following	perimeter fencing.
			compensation and	A copy of the notice given
			mitigation measures to	to the Council of National
			the impact:	Monuments on the
			Compensation	completion of the
			measures:	perimeter fencing.
			1. Collection of	A copy of the notice given
			isolated findings, which	to the Council of National
			correspond to movable	monuments to eventual
			property (earthenware,	archaeological or
			bottles, among others	paleontological findings.
			associated with	
			historical activities)	
			(PAS 132)	
			2. Exhaustive	
			register of real estate,	
			which would correspond	
			to linear traits (caravan	
			footprints, railway	
			lines), structures and	
			housing remains (PAS	
			132)	
			Mitigation measures:	
			1. Fencing of	
			movable and immovable	
			property which are not	
			to be directly affected,	
			but which Because of its	
			proximity to works or	
			activities of the project	
			require protection	
			during the construction	

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			phase. This measure	
			does not require	
			permission, but should	
			be reported to the CMN.	
			Notwithstanding the	
			foregoing, if an	
			archaeological or	
			paleontological finding is	
			made, it shall be	
			proceeded according to	
			the provisions of articles	
			26 and 27 of this law,	
			that is to say, the works	
			on the working fronts of	
			the or the findings will	
			be paralyzed. ,	
			informing immediately	
			in writing and	
			telephonically to the	
			CMN.	
Solid waste		I		
DS N °	All	Construction	Construction phase:	Sanitary authorization of
148/2003		and operation	In the construction	the warehouse of
			phase, hazardous waste	hazardous wastes.
			will be generated in All	Photographic register of
			The phases.	containers with cover
			Hazardous waste will be	labelled.
			kept temporarily in	Copy of contract
			containers with lids duly	concluded with authorized
			labelled.	company to carry out the
			A Hazardous waste	withdrawal of this type of
			cellar, which complies	waste.
			with the requirements of	Retirement Record
			this decree.	Semiannual waste, in
			Storage of this type of	which they contain: date,
			waste will not extend	time, waste and company
				and, waste and company

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			beyond 6 months.	that makes the
			Operation phase:	withdrawal.
			It is estimated that	
			product of the activities	
			of maintenance and	
			cleaning of the	
			installations of the	
			project, will generate	
			hazardous wastes.	
			Hazardous waste will be	
			kept temporarily in	
			containers with lids duly	
			labelled.	
			As for the temporary	
			collection site, the same	
			building will be used for	
			the construction phase.	
D. S N °	20	Construction	Construction phase:	Construction phase:
594/99		and operation	Waste will be generated	Sanitary authorisation of a
			from the construction,	yard for the collection of
			assembly and unpacking	industrial waste.
			of equipment, mainly	Copy of the contract
			wood scraps, cardboard,	concluded with the
			plastics and metals.	administrator of the
			It will have containers in	authorized dump.
			the Different working	Copying contracts with
			fronts for the primary	authorized companies For
			classification of waste,	waste recycling.
			subsequently, will be	Copy of contract
			classified according to	concluded with company
			their nature and	responsible for the
			arranged on a	quarterly waste removal.
			temporary basis in a	Registration of quarterly
			warehouse of industrial	waste, in detail: date,
			waste, in the sector of	time, quantity of waste
			installation of	and company in charge of

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Standard	Article	Application phase	Form of Compliance	Compliance indicator
		pridse	onorationa	the withdrawal.
			operations.	
			Waste such as rubble,	Operation phase:
			wood, ceramics, rubbers	Sanitary clearance of
			and textiles will be	temporary waste storage
			available in the nearest	site.
			authorized dumps. Metal	Copy of contract
			remains may be	concluded with dump
			recycled through	management company to
			authorized companies.	dispose of the waste.
			The removal of this type	Copy of contract
			of waste will be done	concluded with company
			once every three	responsible for the
			months.	recycling of waste.
			Operation phase:	
			The industrial waste	
			generated during this	
			phase of the project will	
			be caused by spare	
			parts, cables, among	
			others, in very low	
			quantities.	
			These wastes will be	
			temporarily arranged in	
			a site Specially	
			authorised to be	
			arranged in dumps or	
			recycled, depending on	
			the nature of the waste.	
			As for the collection site,	
			the same industrial	
			waste collection yard	
			built for the construction	
			phase will be used.	
D.F. L N °	All	All phases	Construction phase:	Construction phase:
725/1967.		•	Waste will be generated	Sanitary authorisation of a
			_	-
123/1907.			from the construction,	yard for the collection of

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			assembly and unpacking	industrial waste.
			of equipment, mainly	Copy of the contract
			wood scraps, cardboard,	concluded with the
			plastics and metals.	administrator of the
			Containers will be	authorized dump.
			counted on the different	Copy of contracts with
			working fronts for the	authorized companies for
			primary classification of	waste recycling.
			the waste, then they will	Copy of contract
			be classified according	concluded with company
			to their nature and	responsible for the
			arranged temporarily in	quarterly waste removal.
			an industrial waste	Registration of quarterly
			collection yard, in the	waste, in detail: date,
			sector of Installation of	time, quantity of waste
			operations.	and company in charge of
			Waste such as rubble,	the withdrawal.
			wood, Ceramics, gums	Operation phase:
			and textiles will be	Sanitary authorization of
			available in the nearest	Temporary waste storage
			authorized dumps. Metal	site.
			remains may be	Copy of contract
			recycled through	concluded with dump
			authorized companies.	management company to
			The removal of this type	dispose of the waste.
			of waste will be done	Copy of contract
			once every three	concluded with company
			months.	responsible for the
			Operation phase:	recycling of waste.
			The industrial waste	
			generated during this	
			phase of the project will	
			be caused by spare	
			parts, cables, among	
			others, in very low	
			quantities.	

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			These wastes will be	
			arranged temporarily in	
			a site specially	
			authorized to be then	
			arranged in dumps	
			approved or well	
			recycled, depending on	
			the nature of the waste.	
			As for the collection site,	
			the same industrial	
			waste collection yard	
			built for the construction	
			phase will be used.	
D.F. L N °	Numeral	Construction	Construction phase:	Sanitary authorization of
1/1989	25 of	and operation	will be counted on	the collection yard of
	Art. 1		Containers on the	Industrial waste
			different working fronts	
			for the primary	
			classification of waste,	
			subsequently, they will	
			be classified according	
			to their nature and	
			arranged on a	
			temporary basis in an	
			industrial waste	
			collection yard, in the	
			installation sector of	
			Tasks.	
			Waste such as rubble,	
			wood, ceramics, rubbers	
			and textiles will be	
			available in the nearest	
			authorized dumps. Metal	
			remains may be	
			recycled through	
			authorized companies.	

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			Operation phase:	
			These wastes will be	
			arranged temporarily in	
			a site specially	
			authorized to be then	
			arranged in dumps	
			approved or well	
			recycled, depending on	
			the nature of the waste.	
			As for the collection site,	
			the same storage yard	
			will be used of industrial	
			waste built for the	
			construction phase.	
Liquid waste	e, wastewa	ater		
D.F. L N °	71,	Construction	Construction phase:	Sanitary authorization of
725/67	Letter B	and Operation	Wastewater will be	the wastewater treatment
			generated from the use	plant.
			of bathrooms, showers	
			and sinks for a	
			maximum of 600	
			people, which	
			considering a provision	
			of 100 L/person/day,	
			will generate an effluent	
			60,000 liters/day, which	
			is to be driven to a	
			water treatment plant.	
			The treated water will	
			be used for humidifying	
			and for the elaboration	
			of the mixture with	
			Bischofita used in the	
			stabilization of the roads	
			during this phase.	
			Operation phase:	

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			For the treatment of	
			wastewater, the same	
			modular treatment plant	
			for aerobic digestion of	
			the construction phase	
			will be used, which will	
			be resized to Adapt it to	
			the least amount of	
			workers present during	
			the operation stage. It is	
			estimated that the	
			maximum effluent for	
			the operation phase will	
			correspond to 2.000	
			l/day.	
D. S N °	26	Construction	Construction phase:	Construction phase:
594/99		and Operation	Wastewater will be	Copy of contract
			generated from the use	concluded with company
			of bathrooms, showers	in charge of removing the
			and sinks for a	chemical baths.
			maximum of 600	Copy of the contract with
			people, which	the subcontracted
			considering a provision	company and the sanitary
			of 100 L/person/day,	one indicating the points
			will generate an effluent	for the dumping of the
			60,000 liters/day, which	wastewater from the
			is to be driven to a	chemical baths.
			water treatment plant.	Records of maintenance
			The treated water will	carried out to the
			be used for humidifying	chemical baths in which it
			and for the elaboration	will be indicated: date,
			of the mixture with	time and person in charge
			Bischofita used in the	of carrying out the
			stabilization of the roads	maintenance.
			during this phase.	Monitoring and control of
			For those work fronts	wastewaters.



Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			that are located more	Sanitary authorisation of
			than 75 meters away	the wastewater treatment
			from the health services	plant.
			installed, It will have	Operation phase:
			chemical baths. These	Sanitary authorization of
			will be withdrawn by an	the treatment plant of
			authorized company and	wastewater
			its contents will be	
			arranged according to	
			the legislation in force.	
			During this phase,	
			proceed as follows:	
			A copy of the current	
			contract or order of	
			purchase shall be kept	
			in work between the	
			undertaking and a	
			sanitary undertaking,	
			indicating the points	
			authorized for the	
			dumping of wastewater	
			from chemical baths.	
			The replacement of	
			chemical baths and	
			portable showers will be	
			carried out every 2 or 3	
			days.	
			A record of the	
			monitoring and control	
			of these wastes will be	
			kept with the	
			corresponding	
			supporting	
			documentation.	
			Operation phase:	
			In the operation of the	



	Article	Application	Form of Compliance	Compliance indicator
		phase		
			project, the waters	
			Services generated will	
			be the product of the	
			operation and	
			maintenance activities	
			carried out to the	
			photovoltaic park.	
			Permanent health	
			Service facilities for the	
			use of staff shall be	
			counted; These facilities	
			will be composed by	
			bathroom, sink and	
			shower and will be	
			located in the operation	
			and maintenance	
			building.	
			For the treatment of	
			wastewater, the same	
			modular treatment plant	
			for aerobic digestion of	
			the construction phase	
			will be used, which will	
			be resized to suit the	
			lowest number of	
			workers present during	
			the operation stage. It is	
			estimated that the	
			maximum effluent for	
			FAsE of operation will	
			correspond to 2.000	
			L/day.	
DS N °	3	Construction	The project in both	Sanitary authorization of
236/26		and operation	phases will have PlantS	-
			of wastewater	the treatment plant of
			treatment. In	wastewater.

VAL0005 Noviembre 2014 Los contenidos que soporta el presente documento constituyen Propiedad Intelectual queda prohibida su reproducción, total o parcial, por cualquier medio, en forma íntegra o extractada	ina 61 de 67
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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			construction phase, it	
			will have a capacity to	
			treat an effluent of	
			60,000 liters/day, and in	
			operation phase will	
			have a CapaciTo treat	
			an effluent of 2.000	
			L/day.	
Transportati	ion of Mate	erials		
D.F. L N °	56 and	Construction	The holder shall take all	Current Driver License
1/2007	57	and operation	necessary measures to	Registration.
			ensure that the charges	
			do not exceed the	
			maximum weights laid	
			down in the law, and	
			that during the	
			transport of these, they	
			are Duly insured so as	
			not to generate accident	
			hazards.	
			The holder shall require	
			all drivers of vehicles	
			working in any of the	
			areas of the project to	
			carry their driver's	
			license in force	
Resolution	All	Construction	In the eventual case	Authorization of
No. 1/95		and operation	that the project requires	circulation, if necessary.
			vehicles with dimensions	
			larger than those	
			established, the	
			authorization shall be	
			requested corresponding	
			to the road	
			management and the	
			security measures to be	
			largerthanthoseestablished,theauthorizationshallberequested correspondingtotheroadmanagementandthe	

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Standard	Article	Application phase	Form of Compliance	Compliance indicator
			adopted in each case	
			will be agreed	
D. S N °	2 and 4	Construction	The project considers	Contracts with carriers in
158/1980		and operation	the transfer of workers	which the maximum
			and the transport of	weight of vehicles that
			materials, by means of	circulates is established.
			heavy and medium-	
			sized motor vehicles, by	
			different routes of the	
			region.	
D. S N °	All	Construction	The project considers	Contracts with carriers in
200/1993		and operation	the transport of	which the maximum
			materials and workers,	weight of vehicles that
			by means of heavy and	circulates is established
			medium-sized motor	
			vehicles, by different	
			urban routes.	
D. S N °	All	Construction	The company will	Photographic records.
75/1987		and operation	require contractors that	Moistening Records made
			cargo trucks or vehicles	to the loading of trucks,
			that transport materials,	indicating: date, time and
			debris or land during the	amount of wet load.
			construction phase have	
			blankets that prevent	
			the fall of these	
			materials and dust	
			dispersion.	
Hazardous s				
DS N °	All	Construction	For the construction	Sanitary authorization of
78/2009			phase it will be stored:	the storage warehouse of
			Oil of Motor, lubricating	Hazardous substances.
			grease, zinc spray and	Registration of hazardous
			polyurethane foam.	substances withdrawal,
			For the storage of these	stating: Date, time and
			substances, a storage warehouse will be	quantity withdrawn.
			warehouse will be	Photographic records of

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Standard	Article	Application phase	Form of Compliance	Compliance indicator
		•	enabled which shall	the characteristics of the
			comply with the	winery.
			stipulations of this	winter y.
			decree.	
			Storage will not exceed	
			6 months and will be	
			made in separate	
			enclosures, one for	
			hazardous substances	
			and one for non-	
			hazardous substances.	
			For the design of the	
			wineries, it shall be	
			considered the	
			provisions of NCH No.	
			2,190 of 2003 or the	
			one that replaces it.	
			In the operating phase,	
			there will be no storage	
			of hazardous	
			substances.	
DS N °	All	Construction	It should be noted that	SEC Certification
160/2009			there will be inside the	
			slaughter plant, a fuel	
			storage warehouse	
			where seven ponds are	
			to be stored, Surface	
			Stationary, Horizontal	
			and steel ASTM A-36,	
			certified by the	
			Superintendence of	
			electricity and fuel	
			(SEC).	
DS N °	Art. 3	Construction	For the transport of	Technical review
298/1994			loads which, by their	
			characteristics, are	

VAL0005 Noviembre 2014	Los contenidos que soporta el presente documento constituyen	
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Noviembre 2014	parcial, por cualquier medio, en forma íntegra o extractada	

Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			dangerous or represent	
			risks to the health of	
			persons, public safety or	
			the environment, no	
			spell vehicles shall be	
			used, but only those	
			which comply with the	
			conditions indicated	
			between which are	
			vehicles of less than 15	
			years old, and which will	
			be periodically required	
			to comply with the	
			corresponding technical	
			reviews	
DS N °	All	Construction	The project will require	A copy of contracts to
656/2000			its contractors to use	establish clauses
			asbestos-containing	prohibiting the use of
			products in the	asbestos.
			construction of the	
			camps and slaughter	
			facilities.	
R.E. N °	All	Construction	This standard applies To	Copying contracts
610/1982		And Operation	The project, to the	Concluded with
			extent that it prohibits	contractors to establish
			the use of Binephi	
			Biphenyls (PCB) as	use of Binephi Biphenyls
			dielectric fluid	use of billepril biphenyis
Native peopl	95			
Law No.	All	Construction	In the region of	Interviews made to
	711		-	
19,253		and operation	Tarapacá, the	members of the
			Indigenous	indigenous associations.
			Development Area (ADI)	Register of indigenous
			has been defined.Jiwasa	communities and
			Oraje "which	associations in the region
1 I			contemplates the	of Tarapacá, Conadi.

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Noviemble 2014	parcial, por cualquier medio, en forma íntegra o extractada	



Article	Application	Form of Compliance	Compliance indicator
	phase		
		Notwithstanding the	
		foregoing, the project	
		"Cielos de Tarapacá" is	
		located more than 25	
		km from said ADI.	
		There are no indigenous	
		communities within the	
		project area, nor within	
		their area of influence.	
		However, it can be	
		verified that there are	
		three indigenous	
		associations within the	
		area of influence of the	
		project, within the	
		locality of Colonia de	
		Pintado, in three of its	
		sub-sectors, which are	
		the indigenous	
		association Aymara	
		Lands of Jehovah, The	
		Indigenous association	
		Aymara Youth of the	
		desert and the	
		Indigenous association	
		Santa Cruz de Pintado,	
		who were duly	
		interviewed.	
		Of these three	
		associations, and	
		-	
		phase	communes of Colchane, Camiña, Pozo Almonte, Huara and Pica. Notwithstanding the foregoing, the project "Cielos de Tarapaca" is located more than 25 km from said ADI. There are no indigenous communities within the project area, nor within their area of influence. However, it can be verified that there are three indigenous associations within the area of influence of the project, within the locality of Colonia de Pintado, in three of its sub-sectors, which are the indigenous association Aymara Lands of Jehovah, The Indigenous association Aymara Youth of the desert and the Indigenous association Santa Cruz de Pintado, who were duly interviewed. Of these three

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Standard	Article	Application	Form of Compliance	Compliance indicator
		phase		
			Folio 1426, only the	
			indigenous association is	
			registered and in force.	
			Aymara Jehovah's	
			Lands.	
			It is of the case to note	
			that in this area there	
			are no indigenous	
			patrimonial sites, nor	
			sacred places in which	
			the manifestations of	
			culture or folklore are	
			carried out.	
			In view of all the	
			foregoing, the project	
			shall comply with all the	
			provisions of this law	
			and will not in any way	
			affect groups belonging	
			to native peoples.	

## TAB d. Voluntary environmental commitment

Commitment	form of verification	Compliance indicators

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