

I PROJECT'S, PETITIONER'S AND PERSON IN CHARGE OF THE ENVIRONMENTAL IMPACT RESEARCH'S GENERAL DATA

I.1 PROJECT'S GENERAL DATA

I.1.1 Projects' code (To be filled out by the Ministry)

I.1.2 Name of the project

POYECTO HIDROELÉCTRICO VERACRUZ (VERACRUZ HYDROELECTRIC PROJECT)

I.1.3 Sector data and kind of project

3.1 Sector. Generation, Transmission and Transformation of Electric Power Project

3.2 Subsector: Hydroelectric

3.3 Kind of project

The project consists in the construction of a dam with a capacity of 194,430 m³ of at NAMO capacity; the construction of a conduction tunnel 2,790 m long and a "Portal" section with a surface of 9 m² with a transversal section of 3.0 m width and 3.0 m height, that will cross the hill in straight line from; the construction of a steel pressure tube with a diameter of 1.22 m and 2.3 km long that will descend by the ravine side to the power house of the hydroelectric generation central; the construction of the power house and substation that will receive the power generated, and the installation of the transmission line in a 4.3 km long circuit.

I.1.4 Risk study and modality thereof

Not applicable

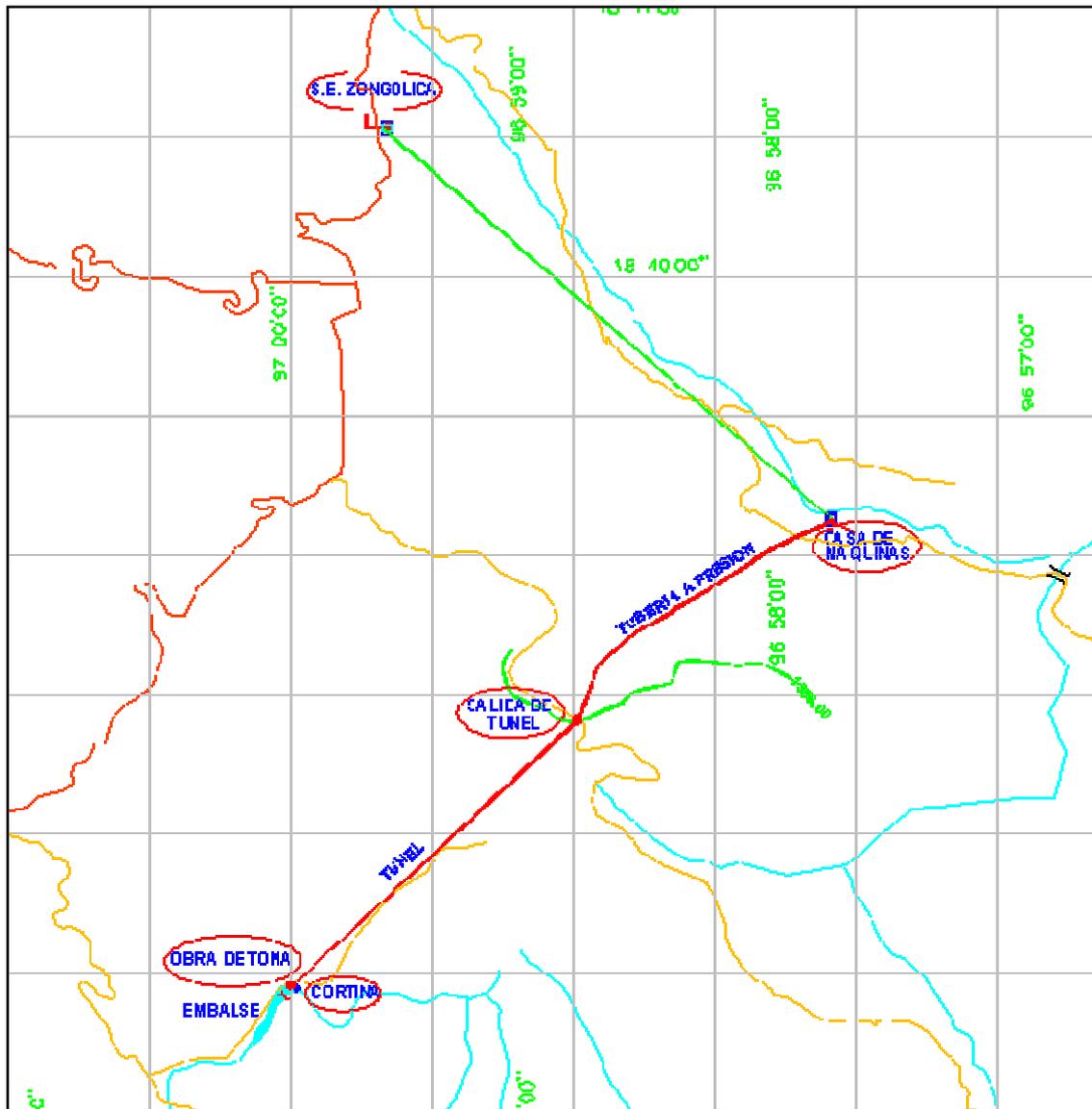
I.1.5 Location of the project

The works that conform the hydroelectric project are located in the central south-west zone of the State of Veracruz, in the so called Sierra Negra de Zongolica that is part of the natural region of the Grandes Montañas, between the coordinates UTM X=710,750 to 714,700; Y=2'059,780 a 2'063,480 and between the elevations of 1370 meters above the sea level (masl) in the reservoir tail of Apatlahuaya river and 580 masl in the discharge zone of the out flow of the Power House to the Zongolica river. The elevations of the Sierra at the southwest increase towards the Sierra Mazateca, in the state of Oaxaca, and in the east it descends to the Sotavento plains, in the State of Veracruz.

The works are located in three municipalities, the municipality of Mixtla de Altamirano, Texhuacán and Zongolica, a portion of the reservoir being in the municipality of Mixtla; another portion of the reservoir, the, tunnel's intake work, tunnel and oscillation tank in Texhuacán and pressure tube, power house and substation in the municipality of Zongolica.

The local draining network includes the Apatlahuaya rivers that will supply the hydroelectric plant, the Zongolica river where the turbine water will be discharged and the Moyotepec, Coyolapa and Altotonga rivers, all of them tributary of the Tonto river, an important affluent of Papaloapan river regulated by the dam Miguel Alemán before it is discharged to the Papaloapan.

FIGURA I.1 LOCATION OF THE PROJECT



The project is located within the following UTM coordinates.

TABLA I.1 UTM COORDINATES FOR THE LOCATION OF THE PROJECT

VERTEX	NORTH LATITUDE	WEST LONGITUDE
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VERTEX	NORTH LATITUDE	WEST LONGITUDE
WATER IMPOUNDING WORK POLYGON		
1	711046.80304	2060121.53633
2	711027.35102	2060141.76643
3	710969.77307	2060154.21571
4	710902.85815	2060109.86513
5	710879.51574	2060070.18302
6	710830.49667	2059959.69560
7	710788.48032	2059906.78613
8	710748.79822	2059830.53424
9	710678.77098	2059730.16186
10	710577.62051	2059604.11282
11	710538.71649	2059578.43617
12	710425.89482	2059572.98961
13	710485.02894	2059542.64447
14	710531.71377	2059533.30750
15	710583.84516	2059541.08831
16	710753.46670	2059727.82762
17	710814.93506	2059843.76161
18	710858.50756	2059909.12037
19	710921.53208	2059974.47913
20	710923.08824	2060015.71739
21	710951.87722	2060049.17485
22	710978.33196	2060065.51454
23	711012.56750	2060057.73374
WATER CONDUCTION WORK VERTEXES.		
1	714529.56811	2063292.57765
2	714416.26856	2063302.93738
3	714294.87987	2062961.03392
4	714016.78594	2062973.88123
5	713906.83088	2062932.38853
6	713772.15781	2062847.41105
7	713749.73652	2062805.61118
8	713520.49802	2062682.16744
9	713474.11493	2062644.07962
10	713290.03933	2062537.26796
11	713228.62721	2062492.03191
12	713143.97503	2062424.06816
13	713076.67464	2062389.46556
14	713044.87300	2062314.89638
15	712950.29305	2062240.77909
16	712910.80521	2062186.35414
17	712851.54112	2062089.26940
TRANSMISSION LINE VERTEXES.		
Initial Point	711615.70775	2066193.61968
PI-1	711648.78073	2066193.61968
PI-2	712074.59539	2065796.74388
PI-3	712285.43566	2065474.28230
PI-4	712731.92093	2064924.44395
PI-5	713037.84602	2064721.87193
PI-6	713711.70805	2064296.05727
PI-7	714149.92508	2063948.79095
PI-8	714294.61938	2063787.56016
PI-9	714559.20324	2063568.45165

VERTEX	NORTH LATITUDE	WEST LONGITUDE
Final Point	714667.99655	2063453.80993
POWER HOUSE POLYGON- SUBSTATION		
1	714530.56874	2063366.61800
2	714559.86418	2063347.78522
3	714655.19063	2063328.02242
4	714714.01402	2063309.88715
5	714721.22163	2063309.42214
6	714832.59081	2063294.77442
7	714756.32966	2063479.61472
8	714584.50956	2063428.92895

I.1.6 Project's Dimensions

For the installation of the project the necessary proceedings for the acquisition of properties, payment of easements and federal zones adding a total area of 243,758 m² (24.38 Ha) will be carried out. From this surface it is worthy to mention that even though this total amount will be available, the area to be occupied will be less, but in order to cover the purchase of the lands, the superficial strip that conforms the tunnel trajectory, as well as the protection strips, right-of-way and of the relevant requirements for change of land use of forestall lands have been taken into consideration. In accordance thereto, the surfaces will be occupied as follows:

Construction surface: 25,285.42m² (2.53 Ha), corresponding to 10.37% of the project's total surface.

TABLE I.2 SURFACES BREAKDOWN

WORK	SURFACE (m ²)
Power house (41x50 m)	2,050
Substation (30x40m)	1,200
Access to power house (175x5m)	962.5
Definitive storehouse (10x15m)	150
Conduction Tube (2160x5m)	10,800
Transmission Line (64m ² x20 towers)	1,280
Portal tunnel	7,672.92
Dam wall	1,170
TOTAL	25,285.42

The projects' total area has a wooded surface of 14.83 Ha, from which, the effective surface to be cleared of trees and its percentage in respect to the wooded area is as follows: 88,849.50 m², (8.88 Ha), representing 59.91% of the wooded surface and 36.45% of the total surface foreseen for the project.

TABLE I.3 EFFECTIVE SURFACE TO BE CLEARED OF TREES

WORK	SURFACE (m ²)
Power house	2,050
Substation	1,200
Access to power house	962.50
Conduction Tube	10,050
Transmission Line	49,800
Reservoir (top 1368)	23,617
Dam wall	1,170
TOTAL	88,849.50

Surface to be occupied by the work and support services such as camps, machinery courtyards, throw sites, etcetera. 22,283.67 m² (2.23 Ha) corresponding to 9.14% of the project's total surface.

TABLE I.4 SURFACE TO BE OCCUPIED BY THE WORKS AND SUPPORT SERVICES

WORK	SURFACE (m ²)
Leftover throw sites	16,619.17
Camps	5,664.50
TOTAL	22,283.67

Surface corresponding to free or green areas. This is the result from subtracting from the project's total surface the construction, reservoir occupation and works and support services surfaces: 172,571.91m² (17.26 Ha). Upon termination of the works, the leftover throw sites and camp 22,283.67 m² (2.23 Ha) shall remain as free areas, therefore there shall be a total of 194,855.58 m² (19.48 Ha) of free areas corresponding to 79.94% of the project's total surface.

Wooded surfaces, non wooded and without vegetation: Wooded 14.83 Ha; Non wooded 5.53 Ha; Without vegetation 3.02 Ha.

Surface required for access roads and other associated works (included in the construction surfaces table): 962.5m².

The following table shows the breakdown of the project's permanent and temporary affectation surfaces. The equivalent percentage of the surfaces in respect to the project's total surface is of 20.06% for the permanent surfaces and 79.94% for the temporary surfaces.

TABLE I.5 PROJECTS' PERMANENT SURFACE

NAME	SURFACE (Ha)
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Reservoir	2.36
Dam	0.12
Tunnel (portal)	0.77
Conduction Tube	1.08
Transmission Line (20 towers of 64m ² each)	0.13
Power House and Substation	0.34
Access to power house	0.09
TOTAL	4.89

TABLE I.6 PROJECT'S TEMPORARY SURFACE

NAME	SURFACE (Ha)
Reservoir and dam (free surface after NAMO)	0.78
Tunnel (superficial – portal stripe)	1.05
Conduction Tube (Right-of-way – permanent occupation surface)	3.24
Transmission Line (Right-of-way – permanent occupation surface)	8.90
Leftover throw zones	1.66
Camps	0.57
Power house and substation (property surface – permanent occupation surface)	3.29
TOTAL	19.49

Based on the foregoing and considering the provisions of right-of-way for the conduction tube, covering of the reservoir area at NAME as well as the several installations of the hydroelectric central, it is intended to carry out the change of land use in forestall lands (Gallery Forest , Pine-Oak Forest and Renewal of Pine Forest) in a surface equal to 4.29 Ha and in coffee with shadow trees in a surface of 10.54 Ha, theretofore, the change of land use in forestall land in a total surface of 14.83 Ha is required.

TABLE I.7 DISTRIBUTION OF THE TOAL SURFCE BY KIND OF LAND USE

VEGETATION	Volume (m3 VTA)	Surface (Ha)
Gallery Forest	197.839	1.39
Oak-Pine Forest	122.683	2.6
Pine Forest (Renewal)	---	0.3
Coffee with shadow trees	457.481	10.54
Subtotal for change of land use	778.002	14.83
Agriculture	1.092	4.1

Pasture ground	---	1.43
Water corps and surfaces without vegetation	---	4.02
TOTAL	779.094	24.38

I.2 PETITIONER'S GENERAL DATA

I.2.1 Name or corporate name

ELECTRICIDAD DEL GOLFO, S. DE R. L. DE C. V.

I.2.2 Taxpayer's Identification Number (RFC)

EGO 080214 6QA

I.2.3 Legal representative's name

Salomón Camhaji Samra

I.2.4 Legal representative's position

Company's general attorney-in-fact.

Under the transcript of the deed containing the corporation agreement of: "Electricidad del Golfo, Sociedad de Responsabilidad Limitada de Capital Variable, Number 300228, Volume 10977, Year 2008, filed in the Public Registry of Property and Commerce of the Federal District in Mercantile Folio Number 377422 as of February 19th, 2008. A copy thereof is included in "Legal Documents" annex.

I.2.5 Legal representative's RFC

RFC: CASS440722FV0

I.2.6 Legal representative's Population Registry Unique Code (CURP)

CURP: CASS440722HDFMML04

I.2.7 Petitioner's domicile to receive notices and service of process

Street: Bosque de Ciruelos 190 - 303 A,
Colonia: Bosques de Las Lomas
Postal Code: 11700,
Political subdivision: Miguel Hidalgo
Federative entity: Federal District
Telephone: (01 5) 55 96 89 24
Fax: (01 5) 52 51 60 65
E-mail: scamhaji@asergen.com.mx

I.3 GENERAL DATA ON THE PERSON IN CHARGE OF THE ENVIRONMENTAL IMPACT RESEARCH

I.3.1 Name or corporate name

Ing. Arturo León Macin

I.3.2 Taxpayers' Identification Number

RFC: LEMA 630203 VB9

I.3.3 Name of the technical person responsible for preparing the research

Ing. Arturo León Macin

I.3.4 Taxpayers' Identification Number

RFC: LEMA 630203 VB9



I.3.5 Population Registry Unique Code

CURP: LEMA 630203HDFNCR06

I.3.6 Professional License of the Technical Person Responsible for the preparation of the research

PROFESSIONAL CERTIFICATE: 1277874

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EN VIRTUD DE QUE ARTURO
LEON MACIN

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FIRMA DEL INTERESADO

I.3.7 Domicile of the Person Responsible for the Research

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Federative entity: Michoacán
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