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MULTINATIONAL COMPANIES IN THE IRON AND STEEL INDUSTRY:

by

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SUMMARY

USIMINAS (Usinas Siderúrgicas de Miras Gerais S.A.) was set up in 1958. At that time, 60% of the capital was provided by Brazil and 40% by Japan. Since 1972, however, Japanese participation has been established at a lower level of 18.73%.

The paper traces the history of the company since the signing of the original Nippo-Brazilian agreement (the main provisions of which are listed) in 1957. During the construction stage, in addition to the capital participation, the Japanese government and industry provided credit facilities and technical assistance. The technical assistance was made available without charge for one year after the start-up of each plant unit: in all, 531 Japanese engineers and operators worked in Brazil up to the end of the original technical assistance agreement in 1966.

A further technical assistance agreement was signed in 1966, covering the production of deep-drawing quality and special steel sheet and strip. Nippon Steel Corporation Ltd concluded a general engineering agreement with USIMINAS in 1971 for the implementation of the expansion scheme, designed to bring the capacity of the plant up to 2.4 million tons per year.

1) Multinational companies are those with sales over US\$100 million, business field at least in six countries and at least, 20% of liquid assets held by their overseas subsidiary companies.

By this definition, there are now near 4,000 multinational companies, holding 15% of world production.

The fact is well known, but we might cite the following multinational companies as the main ones:

COMPANY NAME	HEADOFFICES	SALES	
		(in million of US dollars)	
General Motors	USA	28,300	
Ford Motors	USA	16,400	
Royal Dutch/Shell	Netherlands/ Great Britain	12,700	
Unilever	Great Britain/ Netherlands	7,500	
Volkswagen	West Germany	5,000	
Du Pont	USA	3,800	
R. C. A.	USA	3,700	

2) USIMINAS - Usinas Siderúrgicas de Minas Gerais S/A was founded in 1958 with a capital of Cr\$ 3,2 billion, 60% of which was Brazilian and 40% Japanese. Composition of USIMINAS capital, since January 31, 1972 has however been as follows:

SHAREHOLDERS	VALUE (CR\$ 1 million)	PERCENTAGE
Japanese Group	226.4	18.73
B. N. D. E.	884.1	73.13
National Treasury	78.2	6.47
Other -	20.2	1.67
TOTAL	1,208.9	100.00

To the a rightous view, it. A. . is a joint-stock company and may not be convidence in a stream. As for the Aippo-fragilian operation in Collision of we wish to outline its evolution.

As it is now known. The state of the second agreement is the second of the following of it only second a Brazil-Japan goint stock company, which was being fetween the hippo-Brazilian Groups in once 195.

Ine spirit of this agreement is still the basic principle of happe-Brazilian cooperation.

In general terms, the $\gamma_{g,\ell}$ element has the following characteristics:

- A pate signed: Jane 3, 1957;
- B Technical characteristics of the Plant.
 Annual production program
 1st stage:

Pig Iron504,000	tons/year
Steel Ingots240,000	
Plates158,000	tons/year

2nd stage:

Pig Iron504,000	tons/year
Steel ingots	tanaluana
Plates240,000	tons/year
hot-rolled Sheets 45,600	tons/year
Cold-rolled Sheets 38,400 Galvanized Sheets 33,600	tons/year
33,600	tons/year

FACILITIES

- 1. Ore sintering plant for 2,000 ton sinter/day;
- Coking plant, vitn nominal capacity for 1,100 ton metallurgical coke/day;
- Two blast furnaces, each with nominal capacity for 700 ton pig iron/day;
- 4. Two converters, each with nominal capacity for 45 tons/heat;
- 5. One blooming mill;
- 6. One 120-in plate four-high reversing mill;
- 7. One 72-in hot strip semi-continuous mill;
- 8. One 56-in cold strip mill;9. One continuous galvanizer.
 - C Social Structure of the Company
 The Board of Directors will consist of 5
 Directors, 3 of which will be proposed by
 the Brazilian Group and two by the Japanese
 Group. The President, the Financial and the
 Commercial Directors will come from the Brazilian

Group.

D - Financial Structure
The initial Company capital will be
Cr\$ 3.2 billion, at current value, and
increased to cr\$ 4 billion in a second
stage.

the problem and Japanese Group will share out and 40% of this total, respectively.

- L Floating capital To be provided in Frazil.
- 1 Conditions of a k o k linancing.
 The sum of each period of effectiveness with that of amortization is estimated in 19 years, at 9% interests per year.
- 6 Conditions of the Japanese Group linancing The sur of each period of effectiveness with the respective amortization term is estimated in 15 years, at of interests".

the document was signed by Dr Amaro Lanari Jr on the Brazilian part and Dr Feizo Horikoshi on the Japanese part. It is advisable to stress that, at that time. Dr Amaro Lanari Jr was member of the work Group appointed by the President of Republic and also President of ACESITA.

By the time the capital was increased, as a result of the Japanese partnership, Engineer Amaro Lanari Jr was elected President of USIMINAS and since then he has been re-elected.

At that time, Dr Teizo Horikoshi was the Secretary General to the Japan Lonomic Organizations Federation. Now he is in charge of Vice-President and Director-Secretary to the same Institution.

When Nippon USIMINAS, an organization constituted in Japan to share USIMINAS capital, was founded. Dr Teizo Horikoshi was elected 2nd Tresident and was successively re-elected, still being nolding the charge.

Steps taken by both Brazilian and Japanese Governments up to the foundation of USIMINAS.

LRAZILIAN GOVERNMENT

The Brazilian Government approved on November 7, 1957 the project for the construction of a steelworks plant in the State of Minas Gerais, also establishing that the concerned Organs took all necessary steps up to the end of December 1957.

JAPANESE GOVERNMENT

Considering that the project for the construction of the joint-stock steelworks plant - USIMINAS - would promote export of machinery and equipment from Japan and that this cooperation in the enterprise would contribute to promote economic and cultural exchange between Brazil and Japan, the Japanese Government, at their Board meeting held on April 12, 1957, decided to give complete support to the referred project.

a) Primarily, the Japanese Government approved the Japanese Group's partnership in USIMINAS capital with credit at the Export and Import Bank of Japan and resources of the private group to be supplied through Nippon BSIMINAS.

As for the export of equipment and facilities it was set that financing would be provided on long-term

these conditions of financing coincided exactly with those agreed upon in the Horikoshi-Lanari Agreement.

Nippon USIMINAS has its capital integrated partly by the Japan's biggest private b) founded specially to be a partner in USIMINAS.

Its President is bachelor leizo horikoshi.

Nippon USIMINAS is the appointer of USIMINAS Director to represent the Japanese Group.

c) Since the foundation up to the moment the approximate value of the partnership in USIMINAS capital by the two groups has been the following, changed into US dollars

Brazilian Group - US\$ 184,000,000 Japanese Group - US\$ 62,500,000

USIMINAS CONSTRUCTION

1.
S/A was created in April 1956 (pilot plant). In January 1958, the first concrete step was taken to start its construction.

group of engineers and technicians to set the place for USIMINAS and definitely take several building steps together with

On August 16, 1958, at Ipatinga, the cerimony, to got the President of Republic Dr Juscelino Kubitscheck,

Camara, a Brazilian naturalist, who, in 1814, first obtained

Next deforestation and embankment jobs began. Thereafter, came jobs of rectification of the Vitoria-Minas kailway that crossed the place, the installation of a crushing unit, and the construction of the job office and the construction

In September 1959, the foundation jobs of the No.1 ccking plant and that of No. 1 Blast Furnace already appeared.

Ipatinga, we at the time of its construction was no more than a 300-nouse village, grew up with the Plant and nowadays, after 15 years, it has 50,000 inhabitants, being one of lines derais' two greatest cities in tax collection.

11. PROGRESS UP TO THE COMPLETION OF THE CONSTRUCTION JOBS

On October 26, 1962 the No.1 Coking Plant and No.1 Blast Furnace were complete.

The ceremony of the No.1 blast lurnace blow-in was attended by the President of Republic Mr João Goulart, the Governor of Minas Gerais Dr Magalhães Pinto as well as the Foreign Minister of Japan Mr Kosaka and the President of the EXIMBANK of Japan Mr Lurusawa, besides many other Nippon-Brazilian officers.

In January 1963, the Sintering, Plate and Thick-Plate Rolling Plants were complete.

In may 1965, the President of Republic Marshal Humberto de Alencar Castelo Branco, the Governor of Minas Gerais Dr Magalhães Pinto, State Ministers and other officers attended the solemn act when the Hot Strip Rolling Plant started operations.

In September 1965, the No.2 Coking Plant and $N_{\rm O,2}$ Blast Furnace started operations.

complete. In October 1965, the Cold Strip Rolling Plant was

when the cold strip rolling mill started operations on October 24, 1965, the job of the initial 500,000-ton project of USIMINAS Steelworks Plant was complete. Before its present expansion plans, USIMINAS production reached over 1 million tons.

During the construction stage, JSIMINAS faced many political and economical obstacles established by the excessive increase of paper currency and this happened before 1964.

JAPANESE ECONOMICAL COOPERATION

(1) Societary Partnership

As it was agreed upon in 1957, USIMINAS capital would be CR\$ 3.2 billion in the first phase, and CR\$ 4 billion in the second, with the Japanese compromise to be a 40%-partner of this total, besides the financing that would increase the Japanese partnership to about ¥ 7 billion.

These resources however exhausted as a result from the abrupt increase of paper currency, cancellation of privillege cost exchange - that constituted the base of the construction and management output plan-, drop of exchange tak and other factors, besides large increase in expenses on jobs, materials, housing construction as well as increases in prices of imported equipment.

Nippo-Brazilian negotiations, at Government level, lasted four months counting from October 1961 and ended with the increase of USIMINAS capital. In this increase the Japanese partnership was kept at 401, that represented the increase of the investment to about ¥ 9.7 billion.

As the increase of paper currency cont on, many tinancial negotiations were made between Brazil and tapan among at comparting the 500,000 ton integrated plant. In January 126%, Uniminals capital is increased to Cri) of billion in which the Japanese took part in with * % hillion. Consequently, the proportion of the Japanese partnership dropping to 18%.

By the time 3°1MINAS capital was doubled, in December 1971, when preferential bonds were issued to supply the necessary resources to complete the expansion plan, the Japanese Group subscribed their part.

(2) Credit Supply

Most facilities and equipment pertaining to the initial 500,000-ton plan of USIMINAS came from Japan to which a ¥ 36,516-million credit was given.

to the first phase (1.4 million tons) of the expansion plan, begun in 1008, a new Japanese credit of US\$ 61 million was supplied.

To the second phase of the 2.4 million-plan, now under execution, a Japanese financing was given as bilateral quota.

(3) Japanese Technical Assistance

Regarding the Japanese technical cooperation the Horikoshi-Lanari Agreement settles the following:

- (1) The Japanese shareholders will propose the Technical and Administrative Directors,
- (2) The departments directly under USIMINAS Technical Management will have their Heads proposed by the Japanese Group;
- (3) The Japanese Group will have a team of specialists come to Brazil to establish the local construction project;
- (4) The same group, at the same time, will range a Japanese team to set details for the steelworks plant equipment project.

Based on the Horikoshi-Lanari Agreement, and on a responsible position Nippon-USIMINAS went on making plans for the steelworks plant construction regarding equipment purchase, facilities and material, shipment, production and necessary personnel for the Plant, until the initial project was complete. Next, Nippon Usiminas made many projects necessary for the operation and work of the equipment and facilities.

In January 1958, a Technical Director came to Brazil to put into discussion the chronological sheet of construction and also the installations of the plant units.

In April 1958 also came the construction preparation team in order to develop the execution plan of construction and also to collect—data that had not been surveyed by the groups previously sent.

rule the engagement of personnel selected in Japan to be sent to USIMINAS". Then the sending of construction and operation assistance personnel was set. Technical Assistance faced great difficulties since the plant was in an antipodal position relative to Japan and also because of many obstacles, such as difference of language, of usage, etc.

In 1960, on President Lanari's request, the charge of Chief Adviser was taken over by Engineer Masao Yukawa who stayed in Brazil until the construction job of No.1 Blast Furnace was complete in 1962.

Thanks to Dr Yukawa's devoted orientation and the effective cooperation of Directors and personnel sent, all the construction jobs of the plant successively began at lpatinga which, up to then, was a desert area. No.1 Blast Furnace was blown in the short period of 3 years - a unique event up to then.

After No. 1 Blast Furnace blow-in, the personnel sent not only carried on the construction jobs but also dedicated to operations, giving effective technical assistance under the direction of the Directors sent.

In July 1963, production of thick plates began and, in the end of the same year, the London Lloyd Register of Shipping and, next, the Brussels Veritas Bureau approved the equipment and plates for shipbuilding.

As the Cold Strip Rolling Plant was complete in October 1965, the construction of the integrated 500,000-ton/year steelworks plant was complete.

Speaking exclusively about installation with the productive capacity of 500,000 tons and with regards to construction and operation, Nippon USIMINAS provided technical assistance free of charge until 1 year after each unit had started to the completion of technical assistance to all units, in 1966, Japan sent 531 people to the Plant.

As the installation relative to 500,000 tons was complete, practically all the personnel sent came back to Japan. As a result, the Plant management was put in Brazilian hands.

Simultaneously, the Agreement for Technical Assistance was held as described below. Along with it, the reorganization and rationalization of the Company was made upon a contract held with Booz-Allen $\boldsymbol{\xi}$ Hamilton.

According to the societary partnership, the number of Directors was also changed to 5 Brazilian and 1 Japanese.

After the completion of the Cold Strip Rolling
Plant, a contract for technical assistance was signed in April
1966 between USININAS and the then Yawata Iron and Steel
Co., Ltd., now named Nippon Steel Corp., for the production of
deep-drawing sheets for automotive industry and other
special steel sheets and strips.

Based on this contract, next to 10 people are regularly sent in order to give technical assistance for a period not exceeding 6 months. This contract also foresees training to USIMINAS personnel at Nippon Steel shops.

Ihrough this contract, the production of high quality sheets began in July 1967 within standards required by the automotive industry. As a result, USIMINAS became one of the largest sheet suppliers to the Brazilian automotive industry.

It was parallely held, still being effective, the agreement for Study and Research, also between USIMINAS and Nippon Steel Corp.

To cope with the completion of the 2.4 million-ton expansion plan Nippon Steel Corp and USIMINAS held the General Engineering Agreement in January 1971. As a part of this contract, another one was signed and named Consultant Engineering Agreement.

The cooperation based on the above mentioned agreement is under wide execution giving contribution to carry out the 2.4 million-ton expansion plan.



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