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This final report comprehends all the phases concerning the contract 93/001 DG/IND/90/D40.

Our company, with an experience of over 40 (fourthy) years of activity in machinery production for shoes components, as soles, heels, insoles, welts; has considered to be able to meet UNIDO's requirements for the creation of a know-how to manufacture machine's prototypes for shoes components. The decision to grant the know-how has been seriously valued on the ground of our similar experiences made in the past on other countries as:

A) Brasil
B) Mexico.

Our technical staff employed in this operation gave us the guarantee to obtain a good success of the agreement between UNIDO & our company, to grant the know-how for the production of the following prototypes:
The country, marked out from Unido to obtain the know-how, has been India, for the following reasons:

- leather and industries which use this material have got an important position into the Indian economy.

Following a lot of studies made by Indian Government, as by international organizations, it's possible to identify different problems which need an urgent solution. Among these ones, there was also the problem to envelope companies which produce components for the shoe industry.

In Madras there is the main branch of:

P.D.T.C.
PROTOTYPE AND DEVELOPMENT TRAINING CENTRE

a company well equipped with machineries and mechanical equip -
ments for the development of prototypes with an already acquired experience following to the cooperation with European producers.

Our company has signed Mr. Risso Gianni, our responsible for international services, to follow the agreements between us and UNIDO, until the positive conclusion of the operation.

On 29/09/1992 our company has received the visit of Mr. M. Sairam Director of P.D.T.C. Madras, and our responsible have worked with:

- Dr. Ferenc Schmel
- Mr. Murthy
- Mr. A. Sahasranaman
- Mr. M. Sairam

UNIDO - Vienna
Joint Secretary Govt. of India
Manager of National Leather Sector Programme-UNDP
Director P.D.T.C. Madras

which have explained to our Mr. Risso Gianni the programme & the terms for the offer of assignment of know-how for the production of prototypes by P.D.T.C.

Our Company has seriously considered the request and has studied a clear and detailed offer on the base of all the conditions and fixing as result the positive conclusion of the prototype's con-
struction and their perfect operativity.

Our offer has been accepted and Unido has issued the contract nr 93/001 DG/IND/90/D40 signed on 10/02/1993 from Unido (Director Mr. D. Gardelliv) and on 19/02/1993 from Bruggi S.A.S. (Director Mr. Risso Gianni) for a total amount of USA$ 126125=

Following the contract conditions the work is started as above:
- delivery to P.D.T.C. of all construction drawings of each machine
- delivery to P.D.T.C. of drawings concerning all the particulars of each machine
- delivery to P.D.T.C. of the base distints of each machine
- delivery to P.D.T.C. of catalogues containing instructions for the machine use and spare parts manual.
After, samples of all the parts of the machines object of the contract signed have been shipped to P.D.T.C.

P.D.T.C., after receiving the complete documentation and samples of parts, has started the prototypes' production.

The contract between our company and P.D.T.C. has been continued and our company Bruggi SAS has always answered to all their requests concerning technical and any other information.

During 1994 and in particular in February, Mr. Risso Gianni has visited P.D.T.C. to assure our company about the situation of work, giving suggestions to solve some inconveniences born until that moment. During his visit our responsible has been able to confirm that P.D.T.C. was making all the mechanical parts necessary to produce the prototypes in the best way possible.

On 26/3/93 Mr. Risso Gianni has been invited to the main Branch
of Unido in Vienna to meet Dr. Schme' and Mr. Saharanaman to discuss an emendament to the contract 93/001 DG/IND/90/040.

This emendament A) of USA$ 23875 has been signed on 17/5/93 concerning the following machines:

- BRU 500
- BRU 600.

During March '94, our technician Mr. Dianin Alessio has visited P.D.T.C. in Madras to check the parts already made and the situation of the work.

During June '94, we have received the visit of a few delegates of P.D.T.C. which are stayed in Vigevano for 15 (fifteen) days to receive all the technical information to make the prototypes.

On 23/9/94 our technician Mr. Dianin Alessio has visited P.D.T.C in Madras to assist the assembling of the prototypes of the following machines:
The work is finished on 5/3/94 and with full satisfaction on the partners of the contract which have tested the prototypes either without or with the materials on the machines. A document has been signed for acceptance to declare the conclusion of the work (copy enclosed).

Our technician, during the assembling phase, has been able to give to the Indian technicians of P.D.T.C. all the suggestions necessary to obtain the maximum result from their work.

P.D.T.C. technicians have answered positively to our needs, cooperating in the best way possible to obtain the final result as contract 93/001 DG/IND/90/D40.
Our company, after this really positive result obtained, is at complete disposal for further requests, concerning either know how of furnishing of shoe machineries.

After having made the prototypes and testing their operativity all the machines have been presented to the interested customers.

The promotions effected have been the following one:
- Madras Exhibition 10° IIFL '95 with the presentation of the prototypes built by P.D.T.C.
- Advertising paper (copy enclosed).
- Articles on the local papers (copy enclosed).
M/S
PROTOTYPE DEVELOPMENT & TRAINING CENTRE
SECTOR B 24
GUINDY INDUSTRIAL ESTATE
EKKADUTHANCAL P.O.
MADRAS - 600 097 - INDIA

and for knowledge:
UNIDO - VIENNA - AUSTRIA
and
N.L.D.P. - MADRAS - INDIA

REF: CONTRACT NO.93/001 DG/IND/90-D40.

SUBJECT: FINAL REPORT.

THIS IS THE DOCUMENT WHICH CONFIRMS THAT THE ASSEMBLING OF THE MACHINES:
- MODEL "BRU-401"
- MODEL "BRU-401/B"
- MODEL "BRU-401/C"
- MODEL "BRU-402"
- MODEL "BRU-403"
- MODEL "BRU-500"
- MODEL "BRU-600"

SUBJECT OF THE CONTRACT NO.93/001 DG/IND/90-D40 HAS BEEN CLOSED WITH FULL SATISFACTION FOR THE PARTIES.

THE BEGINNING OF THE WORK IS HAPPENED IN MADRAS NEAR "P.D.T.C." ON 23-09-1984
AND THE WORK HAS BEEN CLOSED WITH THE TESTING OF THE MACHINES ON 05-10-1984
AT THE ASSEMBLING THE FOLLOWING PEOPLE HAVE TAKEN PART:

A) FOR "BRUGGI S.A.S." MR. DIANIN ALESSIO
B) FOR "P.D.T.C." MR. SAIKANT.

FOR "BRUGGI S.A.S."

(DIANIN ALESSIO)

FOR "P.D.T.C."
UNFOLDING THE FACTS OF LEATHER MACHINES AT COMPETITIVE PRICE

AND TIMELY DELIVERY

Fax No: 091-044-2344812
UNIT SOLE MAKING LINE
(IN COLLABORATION WITH BRUGGI - ITALY)

OPERATION
This machine is designed for different types of ornaments and grooving operations in leather sole.

PRODUCTION
- 100 pairs per hr.

MACHINE SPECIFICATIONS
- Pneumatic operating Pressure: 6 Kg/cm²
- Overall Dimensions: 550 x 550 x 1400 (H)
- Motor Power: 0.5 HP
- Net Weight: 70 Kg

SPECIAL FEATURES
1. Pneumatic operation
2. No other Indian manufacturer

EDGES PRE-TRIMMING MACHINE - M 430

OPERATION
This machine is used for trimming the leather sole and heel seat for efficient cementing. It is pneumatically operated and has efficient exhausts.

PRODUCTION
4000 pairs in 8 hours.

SPECIAL FEATURE
No other Indian manufacturer

MACHINE SPECIFICATIONS
- Pneumatic operating Pressure: 6 Kg/cm²
- Overall Dimensions: 690 x 700 x 1300 (H)
- Power: 3 HP
- Net Weight: 270 Kg

SPECIAL FEATURES
1. Imported technology
2. No other Indian manufacturer
3. Inbuilt dust exhaust system
4. Sole seat roughing attachment
5. Pneumatic control
6. Multi-tool cutting provides efficient adhesion properties

SOLE ROUGHING & HEEL SEAT - M 450

OPERATION
This machine is used for trimming the sole heel seat for efficient cementing. It is pneumatically operated in the latest design.

PRODUCTION
1800 pairs per hr.

MACHINE SPECIFICATIONS
- Pneumatic operating Pressure: 4 Kg/cm²
- Overall Dimensions: 450 x 550 x 1100 (H)
- Motor Power: 1.5 HP
- Net Weight: 195 Kg

SPECIAL FEATURES
1. Imported technology
2. No other Indian manufacturer
3. Inbuilt dust exhaust system
4. Sole Seat & Heel roughing attachment
5. Pneumatic control
6. Multi-tool cutting provides efficient adhesion properties

WELT ATTACHING MACHINE - M 460

OPERATION
This is a high productive machine, has the electric pneumatically operated with easy setting for heel cupping.

PRODUCTION
1500 pairs per hr. - Automatic Operation

MACHINE SPECIFICATIONS
- Pneumatic operating Pressure: 6 Kg/cm²
- Overall Dimensions: 650 x 900 x 1100 (H)
- Power: 2 HP
- Net Weight: 240 Kg

SPECIAL FEATURES
1. Imported technology
2. No other Indian manufacturer
3. Imported cutter
4. Semi-automatic heel work clamping & fixed movement
5. Reversing movement movement for Emergency

EFFICIENT AFTER SALE SERVICE ASSURED
MACHINE SPECIFICATIONS FOR STRONG PERFORMANCE
# Machines Available for Sale and Also for Technology Transfer

## R & D Division

<table>
<thead>
<tr>
<th>No.</th>
<th>Machine Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ironing &amp; Embossing m/c</td>
</tr>
<tr>
<td>2.</td>
<td>8 Gun Rotary Spray</td>
</tr>
<tr>
<td>3.</td>
<td>Lightning Buffer</td>
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<tr>
<td>4.</td>
<td>Skiving Machine</td>
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<tr>
<td>5.</td>
<td>Hydraulic Clicker</td>
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<tr>
<td>6.</td>
<td>Autopunch &amp; Eyeletting</td>
</tr>
<tr>
<td>7.</td>
<td>Sole Splitting</td>
</tr>
<tr>
<td>8.</td>
<td>Die Sharpener</td>
</tr>
<tr>
<td>9.</td>
<td>Swing Arm Clicker</td>
</tr>
<tr>
<td>10.</td>
<td>Swing Arm Clicker</td>
</tr>
</tbody>
</table>

## Export Qty.

- 11. Strap Cutting Machine (Manual)
- 13. Beam Cutting Press
- 14. Staking Machine
- 15. Seam Rubbing Tool
- 16. Lasting Jack

## Tool Kits:

- A. Cobbler's
- B. Flayer's
- C. Leather's Goods

## Machines Developed Under UNDP

- 1. Sole Edge Trimming M/c
- 2. Sole Grooving M/c
- 3. Sole Roughing Machine
- 4. Welt Attaching Machine
- 5. Heels Cupping Machine

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# Services Offered

## HRD Division

<table>
<thead>
<tr>
<th>No.</th>
<th>Service Offered</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Leather Goods Maker</td>
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<tr>
<td>2.</td>
<td>Manufacture of Footwear</td>
</tr>
<tr>
<td>3.</td>
<td>Adv. Course in Footwear</td>
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<tr>
<td>4.</td>
<td>Short Term Course in a) Footwear (Men)</td>
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<tr>
<td>5.</td>
<td>Tailor Made Training</td>
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<tr>
<td>6.</td>
<td>Clicking Die Making</td>
</tr>
<tr>
<td>7.</td>
<td>Engineering &amp; Other Sectors</td>
</tr>
</tbody>
</table>

## Engineering & Other Sectors

- 1. Leather Maintenance M/c
- 2. Turner (Ex. ITI App.)
- 3. Machinist (Ex. ITI App.)
- 4. D/mans (Mech) (Ex. ITI. App.)
- 5. Electrician (Ex. ITI. App.)
- 6. Welder (Ex. ITI. App.)
- 7. Electrical Maintenance
- 8. Hydraulics and pneumatics
- 9. CAD Module I, II & III
- 10. HRD Workshop on Demand
- 11. ISO 9000 Quality Systems

## Service Division

- 1. Leather Processing, Footwear Manufacture and Leather Products Manufacture
- 2. Samming
- 3. Spitting
- 4. Shaving
- 5. Drumming with Computerised
- 6. Process Control System
- 7. Setting
- 8. Staking
- 9. Buffing & Dedusting
- 10. Hot Plating and Embossing
- 11. Ironing
- 12. Measuring
- 13. Clicking
- 14. Strap Cutting
- 15. Skiving
- 16. Sole Splitting
- 17. Scouring
- 18. Lasting, Bottom Making & Finishing

## Engineering:

- 1. Horizontal Boring M/c
- 2. Milling Machine
- 3. Grinding Machine
- 4. Dynamic Balancing M/c
- 5. Clicking Die Manufacture
- 6. CNC Turning Machine

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# Contact Information

**THE PROTOTYPE DEVELOPMENT & TRAINING CENTRE**
National Small Industries Corporation Ltd.,
(A Govt. of India Enterprise)
Sector B-24, guindy Industrial Estate,
Ekkaduthangal
MADRAS 600 097

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P.D.T.C. A PROFILE

The Prototype Development and Training Centre (PDTC), Madras, is poised for a big leap in developing footwear machines using the latest technology under the direct assistance of United Nations Development Programme (UNDP).

It is expected that the first of these machines will be displayed by the private sector units, based on the technology transferred to them by PDTC under SLDP Leather Umbrella Project, in ILF '95.

Promulgating Italy, leaders in this line collaborated with PDTC to develop these machines in record time.

Mr. P.K. Bhausa, who recently took over as general manager, PDTC, is an acknowledged expert in CNC technology, ISO 9000, Total Quality Management as well as management information systems. He is assisted by Mr. G. Jayaseelan, additional director.

This highly motivated team has drawn up work schedules and introduced latest concepts in training methods, including the recent launching of newly formed NSIC Quality Society and also holds seminars on ISO 9000 quality system. Total quality management and other relevant requirements of the customers have also been dealt with seriously by this team.

PDTC-Madras, with an excellent infrastructure, is an ideal setup for the whole leather sector. PDTC is properly equipped with training and R&D infrastructure supported with common servicing facility. All the services are available at very reasonable rates as PDTC is basically a service oriented institution committed to customer satisfaction. Training courses are varied and numerous including long-term and short-term courses in leather as well as in engineering sector. There are dedicated instructors.

Production Division

- To bring the centre to self-sufficiency level, by improving the work environment and productivity.

- To provide effective and quality related, productive system in the desired area.

PDTC Madras, is committed to meeting today's and tomorrow's business challenges, with a missionary zeal with a specific role to work as a change agent and to support the industry in bringing about a qualitative change in work culture to provide greater value for price to the manufacturers, the customer, and the society, as a whole.