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**Training Course on
“TECHNOLOGIES FOR THE VALORIZATION
AND RECYCLING OF MINERAL AND
INDUSTRIAL WASTES”**

FINAL REPORT

CONTRACT N° 98/271

Between

THE UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

located at

Vienna International Center

Wagramerstrasse 5, P.O. Box 300, A-1400 Vienna, Austria

Tel. : 43-1 26026, Telex: 131218 pac a, Fax: 269 2669, PAC Fax: 26026 6815/6

and the

ENTE MINERARIO SARDO (EMSA)

Via XXIX Novembre, 31 - Cagliari, Sardinia, Italy

for the

provision of services relating to the

**Training Course on
“TECHNOLOGIES FOR THE VALORIZATION AND
RECYCLING OF MINERAL AND INDUSTRIAL
WASTES”**

30 November - 11 December 1998, Sardinia, Italy

UNIDO Project N° TF/GLO/96/105

Purchase Order N° 15-8-1271X

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Introduction

The international training course on "Technologies for the Valorization and Recycling of Mineral and Industrial Wastes", was organized by ICS jointly with the Ente Minerario Sardo (EMSA) which availed itself of Forgea International, a consortium established by EMSA and the University of Cagliari. The object of Forgea International is the training of medium and high level technicians from developing countries in the mining and environmental fields.

The course was held from November 29th to December 12th, 1998 in the mining village of Monteponi, Iglesias, at the premises of the School of Materials Science.

The course was announced internationally through the network of UCDs and Foreign Embassies in Italy. The participants were selected upon peer review of the collected application forms.

The course was attended by 17 international participants, of which 14 were financially supported by ICS. Participants were from Tunisia, Algeria, Egypt, Jordan, Mexico, Cuba, India and Italy. Lessons were given by about 15 lecturers from European universities and research institutions. Lectures from representatives of Italian companies operating in the field of waste valorisation and recycling were also given. Each participant was given a complete set of lecture notes and information on ICS and its activities. Soft copies of the lectures were collected and will be reviewed, in collaboration with Prof. Pelino, from the University of L'Aquila, for a special ICS-UNIDO publication.

The scientific sessions were opened with a lecture on the ICS's strategic approach to the transfer of sustainable technologies to developing countries (see Training Programme).

Detailed daily report

Sunday, 29 November 1998

Participants arrival and registration

Monday, 30 November 1998

The day started with the opening ceremony. The President of Ente Minerario Sardo (EMSA), Mr Pinna, the President of FORGEA International, Prof. Leone, and the Mayor of Iglesias, Mr Pili, gave welcome speeches. Prof. Muntoni spoke on behalf of the Vice Chancellor of the University of Cagliari and Prof. Meriani on behalf of the Managing Director of ICS.

Further to this inauguration, Dr. L. Ferroni of ICS, introduced the centre describing its background and activities, including the initiatives supported by the new materials policy within the context of the current industrial waste disposal policies, as recommended by ICS and UNIDO. After this introductory presentation, entitled "Introduction to ICS and the targets of the New Materials Area" there was the opportunity of outlining the education and training aspects of engineering with a specific presentation by Prof. S. Meriani entitled "Education in Materials and Industrial Waste Disposal Policy". Prof. P. Amat di San Filippo of the University of Cagliari gave a lecture on the broad and introductory topic "Environmental Protection in Natural Resources Exploitation".

In the afternoon session of the same day Prof. P. Schuiling of the University of Utrecht, The Netherlands, presented "Geochemical Engineering: a New Concept in Waste Management". He also presented "Some Examples of Industrial Waste Treatment by Using the Geochemical Engineering Approach".

Further to these presentations, Ms C. Salvatore of the Italian CNR Office for Scientific and Technological Co-operation with Mediterranean Countries, explained the actions undertaken by this organization with particular emphasis on the imminent meeting called Mediterintech scheduled to be held in Naples, two weeks after this training course.

Tuesday, 1 December 1998

In the morning, 7 participants out of 17 publicly expressed their dissatisfaction regarding the amount given as pocket money. They claimed that it was not sufficient given the positions they hold in their respective countries and the amount normally paid for daily allowance. It was pointed out that the amount paid was calculated according to the usual ICS procedures where all other living

expenses (accommodation, meals, and transport) were provided. That evening after further discussions the participants declared themselves satisfied with the explanations given, apologized and the case was considered closed.

The programme was slightly changed due to absence for health reasons of the morning speakers, namely Mr P. Milella and Mr R. Mussapi, both from the National Agency for Environmental Protection (ANPA), Rome. Their contributions were postponed to the second week of the course.

The presentation by Prof. J. Vehlou, of the Karlsruhe Research Centre, Germany, highlighted the incineration procedures of municipal solid waste with examples from the expertise of his research centre and personal experience in some developing countries. The lessons "Waste Management in Industrial and Developing Countries" and "Thermal Treatment of Municipal Solid Waste" contributed to the broadening of the topics presented demonstrating that there is a large number of unit operations and monitoring procedures that can be effectively used both for industrial and municipal waste treatment.

Wednesday, 2 December 1998

All participants attended the lessons according to the planned programme. A report on the course was given on the RAITRE regional television news. Prof. M. Pelino presented the following topics: "The Industrial Processes Involved in Handling of Primary Raw Materials: Mud and Dust Problems" and "Survey of the Technologies Now in Use for the Disposal and/or Recycling of Mud and Dust in the Primary Raw Materials Industry". The vitrification pilot plant for recycling hazardous industrial waste in glass-ceramic matrices was described. This second presentation effectively introduced the audience to the main object of the training course that was the experimentation of the pilot plant for the vitrification of jarosite muds produced by the hydrometallurgy processes.

The afternoon session was devoted to the description of the pilot plant and the unit operation involved in the warming up and vitrification processes. Mr. G. Cisi presented the lecture on "Technological Aspects of a Vitrification Pilot Plant for Recycling Hazardous Industrial Waste into Glass" as an introduction to the practical session at the pilot plant the following day. The pilot plant is located at the premises of the Miniere Iglesias Co., in Campo Pisano, near Iglesias.

Thursday, 3 December 1998

In the morning, the discussion about the pilot plant continued under the guidance of Mr Cisi. After this, the whole class moved to the above mentioned location to take an active part on the vitrification of about 350 Kg of a mixture blended with jarosite (red mud) granite and a suitable quantity of soda. The participants followed the loading, melting and casting steps. Mr Cisi described, step by step,

the parameters of the monitoring system. A sudden break down of the pyroelectric control allowed the observation of an emergency shut down. After the appropriate procedure for rehabilitating the gas burners was followed, the melting process was resumed and the glass was poured as the final product.

The participants contributed to the closing of the practical session with their personal comments.

Friday, 4 December 1998

Prof. P. Zannini of the University of Modena introduced the recycling of by-products of the ceramics industry with a presentation entitled "The Possibility of Reutilization of Industrial Waste in the Ceramics Industry: the Experience of the Sassuolo-Imola Traditional Ceramics Producers". Further to this presentation, Mr. L. Cassar illustrated how the cement and concrete industries could alleviate the problem of how to dispose of industrial waste compatible with cement compositions and concrete durability requirements. The title of the conference was "Examples of Valorization of Industrial Residue in Cement Production and Application in the Construction Industry". Mr Cassar is from the leading Italian cement producing company. Italy is at the forefront as regards this particular method of waste management. Ms C. Schmid of the University of Trieste followed with a presentation on how a hazardous waste such as asbestos roofing and insulating tiles produced by demolition activities, could be effectively transformed into an inert product suitable for the production of modified portland cements.

The afternoon session was dedicated to the mining and related waste problems with the "Valorization and Recycling of Mining Waste" and the "Environmental Protection in Gold Mining" presented by Prof. A. Zucca and Prof. R. Peretti, respectively.

Saturday, 5 December 1998

The morning session was dedicated to glass-ceramics science and technology. Prof. J. Rincon gave a lecture on "Glass-ceramics Obtained from Axial Pressing and Sintering of High Iron Content Red Mud". This presentation highlighted the potential of glassy materials produced by the pilot plant. This glass can be transformed into glass-ceramic products such as floor and wall tiles through technologies easily available in the traditional ceramics industry.

Dr. V.M. Sglavo presented a lesson on the "Potential Utilization of Red Mud in Industrial Applications" which dealt with the by-products of the Bayer process of the nearby Portovesme, for the production of alumina. A visit to this integrated metallurgy site (Portovesme) was programmed for the participants during the second week of the course.

Mr W. Merzagora, from the company Ambiente, delivered the final presentation of the day on the "Technologies for the Recovery and Valorization of Industrial Waste at the Ambiente plant in Ravenna". This plant is the largest operating in Italy and represents one of the most advanced technologies for the destruction of both hazardous and common industrial residues in Europe.

In order to give the participants an opportunity to introduce themselves, a session in which everybody could present their personal experience and duties along with their respective institutions and countries was added to the program.

Monday, 7 December 1998

Site visit to the Monteponi mining and dumping sites.

Tuesday, 8 December 1998

A cultural visit was organised to show the mineralogical conformation of the area and the old loading system of Porto Flavia that was recently declared a mankind heritage of industrial archaeology by UNESCO. Participants were then taken to visit the town of San Sperate and its murals. A concert and dinner by a well-known local artist was offered.

Wednesday, 9 December 1998

The first lecture in the morning session, "New Research Proposal for the Disposal of the Red Mud Generated by the Portovesme Bayer Eurallumina Process", was held by Dr. R. Dessì, Dr. S. Pilurzu, and Eng. F. Ullu from EMSA. The second one, "Researches for the Reutilization as Construction Materials of Non Ferrous Metallurgy Slag", was by Prof. L. Massidda of the University of Cagliari.

In the afternoon, Mr Peracino, from Welco SpA, described the "Utilisation of Fly-Ashes in the Production of Ceramic Tiles", while Ms L. Meregalli presented "Valorisation of Lead-Zinc Primary Smelters Slag".

Thursday, 10 December 1998

The morning session dealt with "The Asbestos Problem: Regulatory Issues, Stabilization, Recycling" by Dr. A. Marabini, and "Stabilization-Vitrification of Asbestos Containing Residues: Description of the Inertal Plant" presented by Mr R. Zonza from Inertal SpA.

The chemical laboratories of Miniere Iglesiente Co. and those of the University of Cagliari were visited in the afternoon.

In the evening the certificate of participation award ceremony was organized and dinner was offered by EMSA.

Friday, 11 December 1998

Site visit to the dumping areas for red mud from Euroallumina. The Zinc-Lead slugs from Enirisorse and the coal mining dumping sites in Carbonia were also visited.

Saturday, 12 December 1998

Participants departure

Comments and recommendation

The general level of satisfaction, seen in the participants' comments and the returned evaluation questionnaires, clearly indicate that the scientific quality of lectures was very high and very much appreciated. Particularly, site visits were appreciated and considered of great interest.

All lecturers were very good and willing to interact with participants. They generally showed good communication skills, excellent in some cases, and were flexible to the organizational needs of the course.

Participants expressed their satisfaction towards the course sending to their embassies and to the Italian Ministry of Foreign Affairs the enclosed letter.

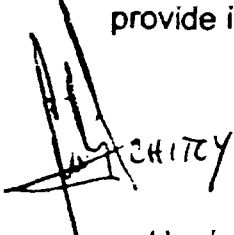
Iglesias, 10.12.1998

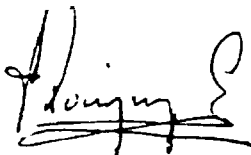
Dear Sir,

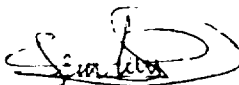
We, the participants to the International Training Course on "Technologies for the Valorization and Recycling of Mineral and Industrial Wastes" organized by FORGEA International jointly with the International Centre for Science and High Technology (ICS-UNIDO) and the Ente Minerario Sardo (EMSA), would like to herewith express our appreciation for the above mentioned event and for the opportunity we have been given to be part of it. We do believe that this kind of activities have a high potential of success within the international cooperation framework and we hope that similar events will be organized on a regular basis in the future and that our countries will be able to benefit from them.

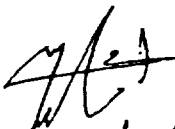
Thanking you for the direct and indirect contribution that you wanted to provide in order to allow our participation, we remain

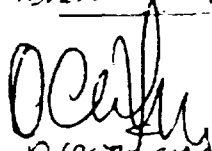
Yours sincerely



Naima Ibrahim
Egypt

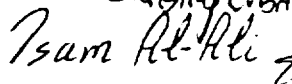

S. Amareh
Jordan



S. Amareh
Jordan

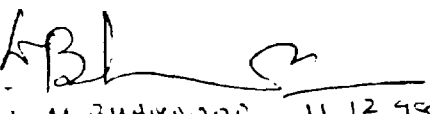

Amjad Adalrah

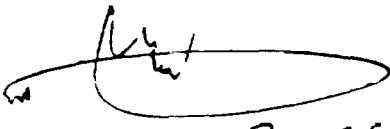

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Omar ZOUAGHI
TUNIS



INTERNATIONAL CENTRE FOR SCIENCE AND HIGH
TECHNOLOGY



In collaboration with
Forgea International

and the
Ente Minerario Sardo (EMSA)

organizes

The International Training Course on
**Technologies for the Valorization and
Recycling of Mineral and Industrial
Wastes**

at the premises of the School of Materials Science
University of Cagliari
Bellavista, Monteponi, Iglesias

30 November -11 December 1998

Introduction

With the rapid growth of industrialization, there is tremendous pressure worldwide on land available not only for housing and industrial complexes but also for use in land-filling as a means of disposal for the huge quantities of waste generated by industries and mining-mineral processing operations. These wastes, some of which are very hazardous, include tailings from processing of ores of copper, zinc, gold, iron, nickel etc. (i.e. heavy metals containing minerals).

The problems of waste disposal have reached a stage where more space is required for storage of waste pile-ups than for the industry generating it. This material is the source of a high degree of pollution of air and water, and can be poisonous for plants and vegetation. Some are also highly hazardous to health, as they contain heavy metals beyond permissible limits in the leaching waters from rainfall.

European Union countries have now set clear directives, which require that by year 2000 there should be no land-fill disposal of wastes produced from inert materials after relevant processing. New technologies are being developed to convert hazardous wastes into a non-hazardous category for various uses in cements, autoclaved calcium silicate products, burnt-clay bricks, refractory, ceramics, glass and glass-ceramics. Some of these products could be high-value materials.

The problem of waste disposal is even more critical in developing countries. In many developing countries, there is a fast development of industrial, mining, mineral and ore processing and also of nuclear power-stations which are discarding hazardous materials including radioactive wastes. Lack of awareness of the future disastrous consequences of the industrial and mining activities results from informal and poor planning. The unscientific methods of disposal have exacerbated what was already a serious problem, as humans are also exposed to multifaceted perils of health hazards and acute shortage of land essential for vital agricultural and industrial activities.

The Training Course on "Technologies for the Valorization and Recycling of Mineral and Industrial Wastes", being organized by ICS in co-operation with Forgea International, Ente Minerario Sardo and the University of Cagliari, aims at conveying related information on the possibilities of inertization and valorization of hazardous wastes, through the introduction of innovative processes. Issues related to energy savings, the use of secondary raw materials, improved environment protection, and total quality control will be taken into consideration.

Monday, 30 November 1998

8,00-9,00

Registration
FORGEA International secretariat

9,00-9,30

Opening ceremony
U. Leone, President of FORGEA International
M. Pili, Mayor of Iglesias
P. Mistretta, Rector of the University of Cagliari
P. Pinna, President of EMSA
S. Meriani, ICS-UNIDO Programme Coordinator

10,00-10,30

Introduction to ICS and the targets of the New Materials Area
L.P. Ferroni, ICS-UNIDO, Trieste, Italy

Coffee break

11,00-11,30

Education to materials and industrial waste disposal policy
S. Meriani, ICS-UNIDO, Trieste, Italy

11,30-12,30

Environmental protection in natural resources exploitation
P. Amat, University of Cagliari, Italy

Lunch

14,00-15,30

Geochemical Engineering: a New Concept in Waste Management
P. Schuiling, University of Utrecht, The Netherlands

Coffee break

16,00-16,30

The Euro-Mediterranean Cooperation for the Eco-sustainable Development of the Industrial Packaging Sector and Recycling Issues: a Case History
C. Salvatore, CNR Office for Scientific and Technological Cooperation with Mediterranean Countries, Napoli, Italy

16,30-17,00

Some examples of industrial waste treatment by using the geochemical engineering approach
P. Schuiling, University of Utrecht, The Netherlands

Tuesday, 1 December 1998

9,00-10,30

Recycling of ferrous scraps: Problems and regulations
Pietro Paolo Milella, ANPA, Roma, Italy

Coffee Break

11,00-12,30

Valorisation and recycling of EAF dust
Roberto Mussapi, ANPA, Roma, Italy

Lunch

14,00 – 15,30

Waste management in industrial and developing countries
J. Vehlow, Forschungszentrum – Karlsruhe, Germany

Coffee break

16,00 – 17,30

Thermal treatment of municipal solid wastes
J. Vehlow, Forschungszentrum – Karlsruhe, Germany

Wednesday, 2 December 1998

9,00 – 10,30

The industrial processes involved in handling primary raw materials: the mud and dust problem
M. Pelino, University of L'Aquila, Italy

Coffee Break

11,30 – 12,30

Survey of the technologies now in use for the disposal and/or recycling of mud and dust in the primary raw materials industry. The vitrification pilot plant for recycling hazardous industrial waste in glass and glass-ceramic matrices
M. Pelino, University of L'Aquila, Italy

Lunch

14,00-18,00

PRACTICAL SESSION:
the vitrification pilot plant: kiln warming-up procedures
G.Cisi, Engineering Ceramic Consultant, Modena, Italy

Thursday, 3 December 1998

9,00 – 10,30

Technological aspects of a vitrification pilot plant for recycling hazardous industrial wastes into glasses
G.Cisi, Engineering Ceramic Consultant, Modena, Italy

Coffee break

11,00 – 12,30

Technological aspects of a vitrification pilot plant for recycling hazardous industrial wastes into glasses
G.Cisi, Engineering Ceramic Consultant, Modena, Italy

Lunch

14,00-18,00

PRACTICAL SESSION:
the vitrification pilot plant: kiln loading and melting procedures
G.Cisi, Engineering Ceramic Consultant, Modena, Italy

Friday, 4 December 1998

9,00 – 10,00

The possibility of re-utilisation of industrial wastes in the ceramic industry: the experience of the Sassuolo-Imola traditional ceramic producers
P. Zannini, University of Modena, Italy

10,00 – 11,00

Examples of valorization of industrial residues in cement production and application in the construction industry
L.Cassar, C.T.G. Italcementi – Bergamo, Italy

Coffee break

11,30-12,30

Proposals of industrial wastes utilization for ceramic and cement applications
C. Schmid, University of Trieste, Italy

Lunch

14,00 – 15,30

Valorization and recycling of mining wastes

A. Zucca , M. Ghiani, CNR, University of Cagliari, Italy

Coffee break

16,00 – 17,30

Environmental protection in gold mining

R. Peretti, M. Ghiani, CNR, University of Cagliari, Italy

Saturday, 5 December 1998

9,00 – 10,30

Glass Ceramics obtained from axial pressing and sintering of vitrified high iron content red mud

J. Ma. Rincon, CSIC-ICC E. Torroja, Madrid, Spain

Coffee break

11,00 – 12,30

Potential utilization of red mud in industrial applications

V.M. Sglavo, G. Carturan, G. Cocco, University of Trento, University of Cagliari, Italy

Coffee break

14,00 – 15,30

Technologies for the recovery and valorization of industrial wastes at Ambiente Spa facility in Ravenna.

W. Merzagora, Ambiente SpA, Italy

Sunday, 6 December 1998

Free

Monday, 7 December 1998

10,00 – 18,00

FIELD VISIT

To the Monteponi area and the UNESCO Geomineral Park

Tuesday, 8 December 1998

10.00-18.00

CULTURAL TRIP to Iglesias and Cagliari

Wednesday, 9 December 1998

9,00 – 10,30

New research proposals for the disposal of the red mud generated by the Porto Vesme Bayer Eurallumina process

R Dessì, S. Pilurzu, F. Ullu, EMSA, Cagliari, Italy

Coffee Break

11,00-12,30

Researches for the reutilization as construction materials of non-ferrous metallurgy slags

L. Massidda, U. Sanna, University of Cagliari, Italy

Lunch

14,00 – 15,30

Utilisation of fly-ashes in the production of ceramic tiles

C.V. Peracino, Welko S.p.a, Italy

Coffee break

16,00 – 17,30

Valorisation of Lead-Zinc primary smelters slag

L. Meregalli, Enirisorse, Porto Marghera, Italy

Thursday, 10 December 1998

9,00 – 10,30

The asbestos problem: regulatory issues, stabilisation, recycling.

A. Marabini, CNR –Istituto Trattamento Minerali, Italy

Coffee break

11,00 – 12,30

Stabilisation-vitrification of asbestos containing residues: description of the inertial plant

R. Zonza, Inertal Spa, Italy

Lunch

14.00-18.00

PRACTICAL SESSION:

Physical and chemical analyses carried out at the laboratories of EMSA Group and University of Cagliari

Friday, 11 December 1998

10,30 – 18,00

FIELD VISIT to the Porto Vesme area

Saturday, 12 December 1998

DEPARTURE

List of Participants

*Training Course on
Technologies for the Valorization and Recycling of Mineral and Industrial Wastes
30 Nov. – 11 Dec.*

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Mr. Omar Zouaghi
Solid Waste and Improvement Department
Rue du Caméroun – Belvédère – 1002 Tunis
Tel. 847122
Fax 848069

List of Lecturers

Training Course on " Technologies for the Valorization and Recycling of Mineral and Industrial Wastes "
30 Nov. – 11 Dec. 1998

<p>Dr. Luigi Cassar C.T.G SpA, Italcementi Group Direzione Centrale Ricerca & Sviluppo via G. Camozzi 124 24121 Bergamo Italy Tel: +39 35 4126291 Fax: +39 35 4126013 or 4126111 Email:</p>	<p>Dr. Ing. Gaetano Cisi Viale Firenze 17 I-41049 Sassuolo (MO) Italy Tel: +39 0536 883202 Fax: +39 0536 839200 Email: gcisi@orion.it</p>
<p>Prof. Paolo Amat Università di Cagliari Dipartimento di Ingegneria Chimica P.zza d'Armi 09123 Cagliari Italy Tel: Fax: +39 070 6755067 Email:</p>	<p>Dr. Roberto Dessì Ente Minerario Sardo (EMSA) Via XXIX Novembre 31 09123 Cagliari Italy Tel: +39 070 6017210 Fax: +39 070 6017228 Email:</p>
<p>Dr. Luca Paolo Ferroni ICS-UNIDO New Materials Area c/o Area Science Park, Padriciano 99 I-34012 Trieste Italy Tel: +39 040 9228124 Fax: +39 040 9228122 Email: ferroni@ics.trieste.it</p>	<p>Prof. Ing. Marcello Ghiani Università di Cagliari Dipartimento di Geoingegneria e Tecnologie Ambientali Piazza d'Armi 09123 Cagliari Italy Tel: +39 70 6755535 Fax: +39 70 6755523 Email:</p>
<p>Dr. A. Marabini CNR Istituto Trattamento Minerali Via Vigne di Colle Pisano 10 I-00044 Frascati (Roma) Italy Tel: +39 06 9417782 Fax: +39 06 9417782 Email:</p>	<p>Prof. Ezio Martuscelli Consiglio Nazionale delle Ricerche Istituto di Ricerca e Tecnologia delle Materie Plastiche via Troiano, 6 80072 Arco Felice (NA) Italy Tel: 081 8534111/8661446 Fax: 081 8663378 Email:</p>
<p>Dr. Letizia Meregalli Enirisorse - Centro Ricerche Venezia Via delle Industrie 39 I-30175 Porto Marghera (VE) Italy Tel: +39 041 5317322 Fax: +39 041 5316756 Email: cerive@port.venice.it</p>	<p>Prof. Sergio Meriani ICS-UNIDO New Materials Area c/o Area Science Park, Padriciano 99 I-34012 Trieste Italy Tel: +39 040 9228125 Fax: +39 040 9228122 Email: meriani@univ.trieste.it</p>

<p>Dr. W. Merzagora Ambiente SpA Via Ramiro Fabiani 3 I-20097 S. Donato Milanese (MI) Italy Tel: 02 52057439 Fax: 02 52037703 Email:</p>	<p>Dr. Pietro Paolo Milella Agenzia Nazionale per la Protezione dell'Ambiente (ANPA) Via Vitaliano Brancati 00100 Roma Italy Tel: +39 06 50072171 Fax: Email:</p>
<p>Dr. Roberto Mussapi Agenzia Nazionale per la Protezione dell'Ambiente (ANPA) Via Vitaliano Brancati Roma Italy Tel: +39 06 5007 2008 Fax: Email:</p>	<p>Prof. Mario Pelino Università degli Studi dell'Aquila Dipartimento di Chimica, Ingegneria Chimica e Materiali Monteluco di Rolo 67040 L'Aquila Italy Tel: 0039 862 434224 Fax: 0039 862 434203 Email: pelino@ing.univaq.it</p>
<p>Dr. C.V. Peracino WELKO Industriale s.p.a. Sales & Marketing Via Milano 18/20 26016 Spino d'Adda (Cr) Italy Tel: +39 373 989230 Fax: +39 373 989334 Email: welko@telnetwork.it</p>	<p>Dr. R. Peretti Università di Cagliari Dipartimento di Geoingegneria e Tecnologie Ambientali Piazza d'Armi 09123 Cagliari Italy Tel: +39 70 6755535 Fax: +39 70 6755523 Email:</p>
<p>Prof. Jesus Ma. Rincon Lopez Instituto de Ciencial de la Construccion Eduardo Torroja (CSIC) The Glass-Ceramics Laboratory cc/ Serrano Galvache s/n 28033 Madrid Spain Tel: +34 91 3020440 Fax: +34 91 3020700 Email: jmarincon@pinar1.csis.es</p>	<p>Dr. Chiara Schmid Università di Trieste Ingegneria dei Materiali e Chimica Applicata Piazzale Europa 1 I-34100 Trieste Italy Tel: + 39 040 6763765 Fax: +39 040 572044 Email: schmid@univ.trieste.it</p>

<p>Dr. Olaf Schuiling University of Utrecht Institute for Earth Sciences PO Box 80021 3508 TA Utrecht The Netherlands Tel: +31 30 2535006 Fax: +31 30 2535030 Email: schuiling@geo.uu.nl</p>	<p>Prof. Vincenzo M. Sglavo Università di Trento Dipartimento di Ingegneria dei Materiali Via Mesiano 77 I-38050 Trento Italy Tel: +39 0461 882468 Fax: +39 0461 881977 Email: sglavo@ing.unitn.it</p>
<p>Ing. Francesco Ullu Ente Minerario Sardo (EMSA) Via XXIX Novembre 31 09123 Cagliari Italy Tel: +39 070 6017210 Fax: +39 070 6017228 Email:</p>	<p>Dr. J. Vehlow Forschungszentrum Karlsruhe Technik und Umwelt Institut für Technische Chemie, Bereich Thermische Abfallbehandlung Postfach 3640 D-76021 Karlsruhe Germany Tel: +49 7247 82 4372 Fax: +49 7247 82 4373 Email:</p>
<p>Prof. Paolo Zannini Università di Modena Dipartimento di Chimica Via Campi 183 I-41100 Modena Italy Tel: 059 378418 Fax: 059 373543 Email: zannini@chimo.unimo.it</p>	<p>Dr. R. Zonza INERTAL s.r.l. c/o BIC Liguria, Via Greto di Cornigliano 6r I-16152 Genova Italy Tel: +39 010 6563332 Fax: +39 010 6563400 Email:</p>
<p>Dr. A. Zucca Università di Cagliari Dipartimento di Geingegneria e Tecnologie Ambientali Piazza d'Armi 09123 Cagliari Italy Tel: +39 70 6755535 Fax: +39 70 6755523 Email:</p>	<p>Dr. Sergio Pilurzu Ente Minerario Sardo (EMSA) Via XXIX Novembre 31 09123 Cagliari Italy Tel: +39 070 280142 Fax: +39 070 280146 Email:</p>

FINANCIAL REPORT

The Ente Minerario Sardo (EMSA) has received from UNIDO USD 36,000 as contribution for the realization of a training course for mining and environmental technicians from developing countries called "Technologies for the Valorization and Recycling of Mineral and Industrial Wastes".

EMSA charged FORGEA International, a consortium between EMSA and the University of Cagliari, with the organization of the event in Monteponi, Iglesias, at the Bellavista building, seat of the School of Materials Science of the University of Cagliari.

Besides the funds received from UNIDO, EMSA supported the realization of the course with its funds to arrange the practical session at the vitrification pilot plant in Campo Pisano, and to meet expenses such as photocopies, postage, the dinner of 10th December. The Ente Sardo Industrie Turistiche (ESIT) provided transportation for the field visit of 8th December to Porto Flavia, and that of 11th December to Portovesme; Eurallumina SpA offered the lunch of 11th December; the University of Cagliari provided facilities and auxiliary services such as cleaning, janitor, etc.

EMSA support is estimated at Lit. 11,365,000. It also supported the activity with its staff whose services were not charged to the project:

- Eng. Francesco Ullu, Research and Development Manager at EMSA and Managing Director acting as General Manager at Forgea
- Eng. Gianfranco Consoni
- Mr. Pietro Cabiddu
- Mr. Giancarlo Contini

As far as the organization is concerned, Forgea International availed itself of Centromed, a travel agency in Cagliari which handled ticket issuing, transfers from and to the airport, hotel booking, catering, and provided a secretary, Miss

Eliana Ligas, who constantly supported both lecturers and students. The travel agency was also in charge of lecturers' expenses reimbursement.

Therefore, Centromed issued three invoices to Forgea for a total amount of Lit. 70,635,200:

- 1st invoice (no. 117/98 of 31.12.98) Lit. 47,359,600
- 2nd invoice (no. 61/98 of 31.12.98) Lit. 9,280,000
- 3rd invoice (no. 04/99 of 16.02.99) Lit. 13,995,600

Such invoices refer to the expenses effected by Centromed on behalf of Forgea International and are documented as follows:

1st Invoice:

- Sulciturist, inv. no. 235 of 27/11/1998, Lit. 5,000,000
 - Sulciturist, inv. no. 245 of 12/12/1998, Lit. 14,240,000
 - Sulciturist, inv. no. 244 of 12/12/1998, Lit. 760,000
 - Hotel Artu, inv. no. 2936 of 10/12/1998, Lit. 75,000
 - Hotel Mediterraneo, inv. no. 2294 of 30/11/1998, Lit. 210,000
 - Hotel Italia, inv. no. 2376 of 30/11/1998, Lit. 100,000
 - Compensation to Miss Eliana Ligas, receipt of 15/01/1999, Lit. 2,500,000
 - Ticket list table, Lit. 13,410,500
 - Travelbus, inv. no. 498 of 21/12/1998, Lit. 1,098,000
 - Floris Luciano, inv. no. 29 of 21/12/1998, Lit. 2,641,100
 - Serime, inv. no. 360/98 of 27/11/1998, Lit. 2,464,000
 - Serime, credit note no. 06/98 of 10/12/1998, Lit. 138,600
 - Payment due to Centromed for its services, Lit. 5,000,000
- Total amount: Lit. 47,359,600

2nd Invoice:

See table "Travelling expenses reimbursement to students"

3rd Invoice:

See table "Reimbursement of expenses to lecturers and students"

The above-mentioned expenses must be added to those sustained by Forgea which amount to Lit. 5,973,040 and are:

- Stationery (inv. F.Ili Dessì sas no. 11814 of 17/11/98), Lit. 139,900
- Stationery (inv. F.Ili Dessì sas no. 12212 of 26/11/98), Lit. 158,140
- Stationery (inv. F.Ili Dessì sas no. 12249 of 26/11/98), Lit. 20,000
- Stationery (inv. F.Ili Dessì sas no. 13249 of 23/12/98), Lit. 83,000
- Briefcases for students (inv. F.Ili Dessì sas no. 12095 of 24/11/98), Lit. 702,000
- Bus transportation in Iglesias (tkr FMS no. 075158 of 25/11/98), Lit. 880,000
- Lunch of 8/12/98 (receipt Pan di Zucchero restaurant no. 1919 of 08/12/98), Lit. 660,000
- Pocket money for students (see table enclosed), Lit. 3,360,000

Other expenses, as above-stated, were sustained by EMSA and other authorities whose contribution to the course amount to Lit. 11,365,000.

Dividing all these expenses according to those estimated in the budget, the enclosed table "Statement of Expenditure" results.

STATEMENT OF EXPENDITURE

(in Lit.)

Description	Budget	Expenses	Balance
A) Expenses for the execution phase			
A.1 Lecturers: board and lodging		3.326.000	
A.2 Lecturers: daily allowance		4.480.000	
Lecturers: subtotal	10.000.000	7.806.000	2.194.000
A.3 Students: board and lodging		16.027.000	
A.4 Students: pocket money		3.360.000	
Students: subtotal	25.200.000	19.387.000	5.813.000
Subtotal (A)	35.200.000	27.193.000	8.007.000
B) Travelling expenses			
B.1 Lecturers	11.200.000	10.794.900	405.100
B.2 Students	28.500.000	23.545.300	4.954.700
Subtotal (B)	39.700.000	34.340.200	5.359.800
TOTAL A+B	74.900.000	61.533.200	13.366.800
C) Other expenses			
C.1 Secretarial services		3.125.000	(3.125.000)
C.2 Secretary: board and lodging		1.032.000	(1.032.000)
C.3 Centromed services		5.000.000	(5.000.000)
C.4 Stationery		401.040	(401.040)
C.5 Briefcases for students		702.000	(702.000)
C.6 Transportation in Iglesias		880.000	(880.000)
C.7 Technical and cultural visits		1.158.000	(1.158.000)
C.8 Catering		2.325.000	(2.325.000)
C.9 Bank and exchange charges		450.000	(450.000)
Subtotal (C)	-	15.073.040	(14.623.040)
TOTAL A+B+C	74.900.000	76.606.240	(1.706.240)

CONTRIBUTIONS FROM OTHER AUTHORITIES

Pilot plant testing	10.000.000	EMSA
Dinner 10.12.98	1.065.000	EMSA
Photocopies and postage	300.000	EMSA
Facilities	(*)	University CA
Field trip 11.12.98 (transportation)	(*)	ESIT
Field trip 11.12.98 (lunch)	(*)	Eurallumina
Total outer contributions	11.365.000	

(*) Amounts not available

STATEMENT OF EXPENDITURE
(expressed in USD - Exchange Rate USD 1 = Lit. 1,665)

Description	Budget	Expenses	Balance
A) Expenses for the execution phase			
A.1 Lecturers: board and lodging		1.998	
A.2 Lecturers: daily allowance		2.691	
Lecturers: subtotal	6.006	4.688	1.318
A.3 Students: board and lodging		9.626	
A.4 Students: pocket money		2.018	
Students: subtotal	15.135	11.644	3.491
Subtotal (A)	21.141	16.332	4.809
B) Travelling expenses			
B.1 Lecturers	6.727	6.483	243
B.2 Students	17.117	14.141	2.976
Subtotal (B)	23.844	20.625	3.219
TOTAL A+B	44.985	36.957	8.028
C) Other expenses			
C.1 Secretarial services		1.877	(1.877)
C.2 Secretary: board and lodging		620	(620)
C.3 Centromed services		3.003	(3.003)
C.4 Stationery		241	(241)
C.5 Briefcases for students		422	(422)
C.6 Transportation in Iglesias		529	(529)
C.7 Technical and cultural visits		695	(695)
C.8 Catering		1.396	(1.396)
C.9 Bank and exchange charges		270	(270)
Subtotal (C)		9.053	(8.783)
TOTAL A+B+C	44.985	46.010	(1.025)

CONTRIBUTIONS FROM OTHER AUTHORITIES

Pilot plant testing	6.006	EMSA
Dinner 10.12.98	640	EMSA
Photocopies and postage	180	EMSA
Facilities	(*)	University CA
Field trip 11.12.98 (transportation)	(*)	ESIT
Field trip 11.12.98 (lunch)	(*)	Eurallumina
Total outer contributions	6.826	

(*) Amounts not available

STATEMENT OF EXPENDITURE
(expressed in USD - Exchange Rate USD 1 = Lit. 1,665)

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Facilities	(*)	University CA
Field trip 11.12.98 (transportation)	(*)	ESIT
Field trip 11.12.98 (lunch)	(*)	Eurallumina
Total outer contributions	6.826	

(*) Amounts not available

COPIES OF INVOICES AND VOUCHERS

Spettabile
FORGEA INTERNATIONAL
 Via XXIX Novembre, 41
 09123 Cagliari

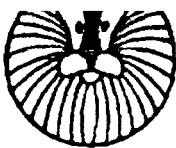
Cagliari, 31 dicembre 1998

Fattura N° 117/98

C. F. :

Descrizione		
Vostro dare per servizi relativi al corso Valorisation and Recycling of Mineral and Industrial Wastes - Iglesias, 30 novembre - 11 dicembre 1998		
• Hotel Leon d'Or		
• Hotel Artu		
• Hotel Mediterraneo		
• Hotel Italia		
• N. 1 Hostess		2.500.000
• Biglietteria		13.410.500
• Transfer con minibus da 9 posti Apt/Htl/Apt e gita del 08 dicembre 1998		1.098.000
• N. 34 transfer individuali		2.641.100
• Tkt lunch		2.325.000
• Spese di segreteria		5.000.000
Fattura redatta ai sensi dell'art. 74 ter D.P.R. 633/72	Totale Fattura	Lit 47.359.600
	Acconto	Lit 15.000.000
	Saldo	Lit 32.359.600

Allegati n° 12 documenti giustificativi



Viale Colombo, 72 - 09016 IGLESIAS
 Tel. (0781) 33555 - 33530
 Fax (0781) 33531 - Tel. 0337/811088
 Luogo Cons. Doc. Fisc.:
 Viale Colombo, 72 - Iglesias
 Partita IVA 01811370921

Legge 30 dicembre 1991 n. 413

N. 235

data 27.11.98

Cliente, residenza o domicilio

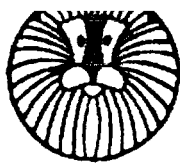
p.c. città, residenza o domicilio

CENTRO MED. SAS VIA XXIX NOVEMBRE, N°22 CAGLIARI
PI 00205360928

Quantità, natura e qualità dei beni o dei servizi		Importo
ACQUINO PERHOTAKENTI GRUPPO FORGEA		5.000.000
RIFERIMENTI FISCALI		
PROT. N°	<u>278/10998</u>	
RIFERIMENTO CONTABILI		
DATA		
<input type="checkbox"/> INCASSO	<input checked="" type="checkbox"/> PAGAMENTO	
BANCA <input checked="" type="checkbox"/>	<u>FDI 844 B.S.S.</u>	
CASSA <input type="checkbox"/>		
Corrispettivo non pagato		TOTALE L. (IVA compresa) <u>5.000.000</u>
IVA %	Imponibile	Imposta
		<u>10</u>
		<u>4545454</u>
		<u>454546</u>

Coop. Tipografica Ed. Art. N. Canelles - Piazza Municipio, 4 - 09016 Iglesias
 Tel. (0781) 22274 - Partita IVA e Cod. Fiscale 00184040921 - Aut. Min. Fin. - Prot. 369960 del 4/1/80

XA N° 116295 /98



ON CARLOS SHIRO & C.
 Viale Colombo, 72 - 09016 IGLESIAS
 Tel. (0781) 33555 - 33530
 Fax (0781) 33531 - Tel. 0337/811088
 Luogo Cons. Doc. Fisc.:
 Viale Colombo, 72 - Iglesias
 Partita IVA 01811370921

Fattura (Ricevuta Fiscale)
 Legge 30 dicembre 1991 n. 413

N. 045

data 10 12 98

Cliente, residenza o domicilio

CORSO EMSA

Cliente, residenza o domicilio

CENTRONED VIA XXIX NOVEMBRE 22
 09123 CAGLIARI

Quantità, natura e qualità dei beni o dei servizi		Importo
187	MEZZE PENSIONI	14960.000
35	PENSIONI COMPLETE	3500.000
13	PERMANENTI	780.000
	ACCONTO FAT. N. 235 DEL 27.11.98	-5.000.000
RIFERIMENTI FISCALI PROY. N. 245 9/10		
RIFERIMENTO CONTABILI		
DATA		
<input type="checkbox"/>	CASSO	<input type="checkbox"/> PAGAMENTO
<input type="checkbox"/>	BANCA	
<input type="checkbox"/>	CASSA	
Corrispettivo non pagato		TOTALE L (IVA compresa) 14040.000
IVA %	Imponibile	Imposta
10	12945454	1294546

Coop. Tipografica Ed. Art. N. Canelles - Piazza Municipio, 4 - 09016 Iglesias
 Tel. (0781) 22274 - Partita IVA e Cod. Fiscale 00184040921 - Aut. Min. Fin. - Prot. 369960 del 4/1/80

XA N° 116305 /98



SULCITURISTI S.p.A.

di Cardia Silvio & C.
Viale Colombo, 72 - 09016 IGLESIAS
Tel. (0781) 33555 - 33530
Fax (0781) 33531 - Tel. 0337/811088
Luogo Cons. Doc. Fisc.:
Viale Colombo, 72 - Iglesias
Partita IVA 01811370921

Ricevuta Fiscale
 Fattura (Ricevuta Fiscale)
Legge 30 dicembre 1981 n. 413

N. 264
data 12.12.98

Ciente, residenza o domicilio

CORSO ENSA

p.c. uffici, residenza o domicilio

CENTROMED Via xxix Novembre 22
09123 CAGLIARI

Quantità, natura e qualità dei beni o dei servizi		Importo
10	GIOGANTINU	144.000
07	TERRE BIANCHE	84.000
04	TERRE FERACE	60.000
15	SARDUS PATER	180.000
10	FILIERI ROSSO	120.000
15	CANNOS	150.000
02	BIRRE SPECIALI	42.000
RIFERIMENTI FISCALI PROT. N° 116/98		
RIFERIMENTO CONTABILI DATA		
<input type="checkbox"/> INCASSO <input type="checkbox"/> PAGAMENTO		
BANCA <input type="checkbox"/>		
CASSA <input type="checkbox"/>		
Corrispettivo non pagato		TOTALE L. (IVA compresa) 760.000
IVA %	Imponibile	Imposta
10	690909	69091

Coop. Tipografica Ed. Art. N. Canelles - Piazza Municipio, 4 - 09016 Iglesias
Tel. (0781) 22274 - Partita IVA e Cod. Fiscale 00184040921 - Aut. Min. Fin. - Prot. 369980 del 4/1/80

XA N° 116304 /98



PIAZZA SOLLA, 15
 TEL. e FAX: (0781) 22492
 22546 - 82448 - 82449
 09016 IGLESIAS
 P. IVA 01045260922
 Cod. Fisc. CUI GNN 54205 0287V

AM. A
 LEVAJE 30 GIUGNO 81 N. 413
 XA N° 101015 /98
 Telefono e fax (0781) 22274 - Aut. Min. Finanze Prot. N. 369960 del 4/1/1980

<input type="checkbox"/> RICEVUTA FISCALE		<input checked="" type="checkbox"/> FATTURA/RICEVUTA FISCALE	
NUMERO	DATA		
2936	10.12.98		
Cliente CENTRO MED SAS VIA XXIX NOVEMBRE 28 P. IVA 00805360928 CAGLIARI			
Quantità natura e qualità dei beni o servizi		IMPORTO	
Coperto			
Bevande			
RIFERIMENTI FISCALI		1098	
Antipasti			
RIFERIMENTO CONTABILI			
Secondi			
DATA			
INCASSO		<input type="checkbox"/> PAGAMENTO	
Contanti			
BANCA		<input type="checkbox"/>	
Dessert			
CASSA		<input type="checkbox"/>	
Bar			
Pasto Concordato			
1 Pernottamento		75000	
Ristorante			
Garage			
Telefono			
Servizio			
V/S Sg. L. CASSAR			
SOTTAGLIO IVA			Corrispettivo pagato
Aliquota	Imponibile	Imposta	
			Corrispettivo non pagato
Aliquota	Imponibile	Imposta	
10%			
Totale		6819	TOTALE 75000

Spett.le

CENTRO MED SAS.
 VIA XXIX NOVEMBRE 28
 CAGLIARI

o le ns/ fatture n° 2936 del 10/12. con preghiera di
 : CREDIT-IGLESIAS con le seguenti coordinate

VANNI.

molto distintamente.

IGLESIAS
 IGLESIAS

Lungomare C. Colombo, 46
 Tel. (070) 301271 (8 linee ric. aut.)
 Fax (070) 301274
 Telegr.: Mediterraneo



Hotel Mediterraneo

★ ★ ★ ★

Camera 300
 Persone 1
 Data di arrivo 29/11/98
 Data di emissione 30/11/98
 Voucher

FATTURA (Ricevuta Fiscale)

RICEVUTA FISCALE

XRU 0239370 /98

TRATTAMENTO CONVENUTO
 DATA 30/11/98 OTT:98 TRE CAMERA E COLAZIONE
 CLIENTE LEONE
 DESTINATARIO DELLA PRESENTE
 SPETT.LE
 CENTROMED SAE
 VIA XXIX NOVEMBRE, 22
 09123CAGLIARI CA
 P.IVA: 205380929

DATA	CAMERA	DESCRIZIONE (NATURA E QUALITÀ DEI BENI)	IVA	IMPORTO
29/11/98	300	Camera	10	175.500
30/11/98	300	Camera	10	21.500

RIFERIMENTI FISCALI
 PROT. N° 292.1098
 RIFERIMENTO CONTABILI
 DATA _____
 INCASSO PAGAMENTO
 BANCA _____
 CASSA _____

Sigma S.r.l. - Capitan Via del Commercio, 33/35 - Adiana N.° 11-12-1979 - (01588) 04/1998

IVA %	IMPONIBILE	IMPORTO IVA	TASSA SOGG	ESENTE NON IMP.	TOTALE CORRISPETTIVO (IVA INCLUSA) CORRISPETT. PAG.	
					CORR. NON PAG.	210.000
					TOT. NETTO A PAGARE (OUR CREDIT)	210.000

CORRISPETTIVO PAGATO CORRISPETTIVO NON PAGATO
 Immobiliare Alessandra S.p.A.
 Lungomare Colombo n° 46
 09125 CAGLIARI
 Part IVA 02329210922

CO.S.S.A.T. s.p.a. - 09124 Cagliari - Via Sardegna, 31
 C.C.I.A.A. CA n° 87248 - Reg. Soc. Trib. CA n° 4542 - Cod. Fisc. 0140160620



hotelitalia

09124 Cagliari - Via Sardegna n. 31
 Tel. 070/660.410 - Fax 650.240

RICEVUTA FISCALE

FATTURA (RICEV. FISCALE)

N° ATTRIBUITO

N° 2326

DATA

30/11/98

Sig. SEVUING
 dal 28/11/98
 al

XRF * 051283 198

TIPOGRAFIA CARTOLERIA MERCANTILE GIACOMO DOGLIO di G. e R. DOGLIO s.n.c. - Cagliari Largo C. Felice 28 - Tel. 070/660608 - C.F. s.p.a. 013280923 - Aut. Min. Finanze n. 302027/79 del 12-4-1978

DESCRIZIONE DEI BENI O SERVIZI (Natura - Qualità - Quantità - Prezzo)				IMPORTO
Camera	10	GG	x	L.
"		GG	x	"
Camera e 1ª colaz.	1	GG	x	100.000
"		GG	x	"
RIFERIMENTI FISCALI				"
Biancheria	PROT. N°		308,10%	"
RIFERIMENTO CONTABILI				"
Telefono	DATA			"
Bar	<input type="checkbox"/> INCASSO	<input type="checkbox"/> PAGAMENTO	PC	"
	BANCA		<input type="checkbox"/>	"
Autorimessa	CASSA		<input type="checkbox"/>	"
Versamenti in conto				"
Rif. Mc. HSC. 051268				Totale L. 100.000
DE 28/11/98				"
DETTAGLIO IVA		ALIQUOTA 10%		
IMPONIBILE	L. 90.000	CORRISPETTIVO PAGATO		
IMPOSTA	L. 9.000	CORRISPETTIVO NON PAGATO		100.000
TOTALE	L. 100.000	TOTALE DOCUMENTO		100.000
FIRMA DEL CLIENTE PER MANCATO PAGAMENTO		DATI IDENTIFICATIVI DEL CLIENTE		
		CENTROTED S.A.S. VIAGGI E TURISMO		
		VIA 29 NOVEMBRE, 22		
		09123 CAGLIARI		

COPIA PER IL CLIENTE

All.: 1

Spettebile
 Forgea International
 Via XXXIX Novembre, 41
 09123 Cagliari

Elenco dettagliato biglietteria emessa in occasione del corso *Valorisation and Recycling of Mineral and Industrial Wastes* - Iglesias, 30 novembre - 11 dicembre 1998

Data	Nominativo	Itinerario	N° tkt	Importo
20/11/98	Castro - Vidal	Hav/Mxp/Hav	5047126755	4.274.000
20/11/98	Hasnaoui - Zouaghi	Tun/Fco/Cag/Fco/Tun	5047126758	1.441.000
20/11/98	Dominguez Octavio	Fco/Cag/Fco	3074523376	295.000
20/11/98	Castro - Vidal	Mxp/Cag/Fco/Mxp	3074523377	1.043.000
23/11/98	Bansal - Bhandari	Bom/Mxp/Fco/Cag/Fco/Mxp/Bom	5047126760	3.263.000
23/11/98	Bansal - Bhandari	Udr/Bom/Udr	5047126762	774.000
23/11/98	Dominguez Octavio	Mex/Cdg/Fco/Cdg/Mex		2.099.500
24/11/98	Karamanov Alexander	Fco/Cag/Fco	3074523382	330.000
26/11/98	Belkadi Mohamed	Fco/Cag/Fco	3074523390	330.000
10/12/98	Castro	Cag/Fco/Mxp	6697040353	302.000
10/12/98	Vidal	Cag/Fco/Mxp	6697040354	302.000
31/12/98	Castro - Vidal	Mxp/Cag/Fco/Mxp	rimborso	-1.043.000
			Totale biglietteria	13.410.500



A U T O L I N E E N O L E G G I O B U S

AUTONOLEGGIO E SERVIZI

Sede Organizzativa Via Cardano, 4 - 09131 Cagliari (Italy) - Tel. 070/491648 - 41399 - Telefax 070/491703
Ufficio: Via Roma, 114 - 09043 Muravera - CA (Italy) - Tel. (070) 9930547

Spett/le
CENTROMED S.a.s.
Via 29 Novembre, 22
09123 CAGLIARI

P.IVA n° 0C205360928

Cagliari, 21/12/98

FATTURA N. 498

Vs. dare per i seguenti servizi effettuati per Vs. conto,
in favore CORSO INTERNAZIONALE EMSA 30/II - II/12/98:

Table with 2 columns: Description and Amount (Lit.). Rows include transfer services and bus rental for various dates in 1998, totaling Lit. 1,098,000.

IMPONIBILE - I.V.A. 10% - TOTALE FATTURA
Lit. 998.182 Lit. 99.818 Lit. 1.098.000

RIFERIMENTI FISCALI
PROT. N° 504/11048
RIFERIMENTO CONTABILI
DATA
INCASSO PAGAMENTO
BANCA
CASSA

EMSA (FORGEA) MARIO

EMSA (FORGEA)
VIA XXIX NOVEMBRE, 22
09123 CAGLIARI
00205360928

29

21/12/98

CENTROMS VIAGGI
VIA XXIX NOVEMBRE, 22

09123 CAGLIARI

00205360928

A VISTA

BNL - IGLESIAS
C/C N. 6937

- SERVIZI PER USI CONTO
DA ELMAS AD IGLESIAS
A mezzo Fiat MARCA AM671VC
ARRIVI N° 18
- SERVIZI PER USI CONTO
DA IGLESIAS AD ELMAS
A mezzo Fiat MARCA AM671VC
PARTENZE N° 16

RIFERIMENTI FISCALI
PROT. N° SOS 1/094

RIFERIMENTO CONTABILI
DATA _____
 INCASSO PAGAMENTO
BANCA _____
CASSA _____

2.644.100 =

	10
	1.204.000
	1.440.000
	2.644.000
	240.100
	2.644.100



CATERING E SERVIZI

SOC. RESP. LIMITATA
DIREZIONE COMMERCIALE E AMMINISTRATIVA
VIALE MONTEPONI, 12 - 09016 IGLESIAS
TELEFONO (0781) 3.3990 / 1
Sede Legale CAGLIARI - Partita IVA e Cod. Fisc.: 00494740921
C.C.I.A.A. Cagliari 92305 - Reg. Societa Cagliari 8103

Iglesias 27.11.1998

Spett.le
CENTROMED S.A.S.
Via XIX Novembre, 22
09123 CAGLIARI

FATTURA N. 360/98

Vs. Rif.
Ns. Rif.

EFFETTUATO

00205360928

Condizioni di Pagamento:

Cod. fisc e Partita IVA

Non si accettano ordini per ammendi, resti, differenze, ecc... se non fatti al momento della consegna della merce. Non si riconoscono che i pagamenti fatti direttamente alla Ditta presso la sua sede o il persona munita di regolare procura ad alle condizioni concordate. Per i pagamenti a dilazione il ritardo di oltre 7 giorni dal termine concordato costituisce autorizzazione all'emissione di tratta a vista con protesto maggiorata di spese. Incasso sui pagamenti a "urdo" oltre il termine concordato DECORRENTE, senza PREGIUDIZIO di altre azioni, gli interessi di r...

Table with 5 columns: Quantita, DESCRIZIONE, Prezzo Unitario, TOTALE, Allq. IVA. Includes details for 160 Pasti, fiscal references, and a summary table at the bottom with values like 2.240.000, 10, 224.000, 2.464.000.

PAGATO
PER QUOTAZIONE
[Signature]



CATERING E SERVIZI

SOC. RESP. LIMITATA
 DIREZIONE COMMERCIALE E AMMINISTRATIVA
 VIALE MONTEPONI, 12 - 09016 IGLESIAS
 TELEFONO (0781) 33990 1

Sede Legale CAGLIARI - Partita IVA e Cod. Fisc.: 00494740921
 C.C.I.A.A. Cagliari 92308 - Reg. Società Cagliari 8103

NOTA CREDITO

N. XXXXXXXXXX 06/98

Iglesias 10.12.1998

Spett.le
 CENTROMED S.A.S.
 Via XIX Novembre, 22
 09123 CAGLIARI

Vs. Rif.
 Ns. Rif.

Condizioni di Pagamento: EFFETTUATO CONGRESSO FOSSEA EMSA Cod. fisc. e Partita IVA 00205360928

CONDIZIONI DI VENDITA: La merce viaggia a rischio e pericolo del committente anche se venduta franco destino. Non si accettano reclami per ammaccati, rotture, difformità, ecc., se non fatti al momento della consegna della merce. Non si riconoscono che i pagamenti fatti direttamente alla Ditta presso la sua sede o il personale munito di regolare procura ed alle condizioni concordate. Per i pagamenti a dilazione il ritardo di oltre 7 giorni dal termine concordato costituisce autorizzazione a intesa di tratta a vista con protesto maggiorata di spesa. Inoltre sui pagamenti in essere bancario commerciale vigente. Per qualsiasi controversia, loro componenti Cap

Quantità	DESCRIZIONE	Prezzo Unitario	TOTALE	Allq. IVA
9	Va. avere per resa buoni pasto di cui alla ns. fatt. n° 360/98 del 27.11.1998. Buoni pasto RIFERIMENTI FISCALI PROT. N° 302/100/98 RIFERIMENTO CONTABILI DATA <input type="checkbox"/> INCASSO <input type="checkbox"/> PAGAMENTO BANCA <input type="checkbox"/> CASSA <input type="checkbox"/>	14.000	126.000	10
IMPONIBILE		% IVA	IMPOSTA	TOTALE
126.000		10	12.600	NOTA CREDITO 138.600
S.E. & O.				

centromed

VIAGGI TURISMO CONGRESSI INCENTIVE

Spettabile
FORGEA INTERNATIONAL
Via XXIX Novembre, 41
09123 Cagliari

Cagliari, 31 dicembre 1998

C. F.:

Fattura N° 615/98

VOSTRO DARE PER • spese sostenute in nome e per conto degli ospiti che hanno preso parte al corso <i>Valorisation and Recycling of Mineral and Industrial Wastes</i> - Iglesias, 30 novembre - 11 dicembre 1998	9.280.000
--	------------------

Fattura non imponibile ai sensi dell'art. 15 - D.P.R. 633/72	Totale Fattura Lit 9.280.000
--	---------------------------------

Travelling expenses - Reimbursement to students

(in Lit.)

Castro-Vidal	777.000
Belkadi	587.000
Tawfik	1.566.000
Amaireh	1.349.000
Adaileh	1.349.000
Al-Ali	1.349.000
Martinez Chitoy	2.227.000
	Subtotal
	9.204.000
Exchange charges	76.000
	Total
	9.280.000

Spettabile
FORGEA INTERNATIONAL
Via XXIX Novembre, 41
09123 Cagliari

Cagliari, 16 febbraio '99

Fattura N° 04/99

C. F. :

Descrizione		
Vostro dare per servizi relativi al corso Valorisation and Recycling of Mineral and Industrial Wastes - Iglesias, 30 novembre - 11 dicembre 1998 (Ns. ref. Fatt. 117/98)		
• Spese diaria docenti e biglietteria varia		13.370.600
• Spese di segreteria		625.000
Fattura redatta ai sensi dell'art. 74 ter D.P.R. 633/72	Totale Fattura	Lit 13.995.600

Reimbursement of expenses to lecturers and students
(in Lit.)

	Travel	Taxi	Reimb. Km	Tolls	Parking	Meals	Subtotal	Daily allow.	Total
Lecturers									
Amat								160.000	
Cassar	574.000	15.000					589.000	160.000	749.000
Cisi	414.000		65.000		85.000		564.000	640.000	1.204.000
Ghiani							-	160.000	160.000
Marabini	394.000						394.000	160.000	554.000
Massidda							-	160.000	160.000
Meregalli	741.000						741.000	320.000	1.061.000
Merzagora	724.800						724.800	320.000	1.044.800
Pelino	394.000		119.000	20.000	30.000	8.000	571.000	480.000	1.051.000
Peretti							-	160.000	160.000
Rincon	661.000	62.000					723.000	320.000	1.043.000
Salvatore	394.000	90.000					484.000	160.000	644.000
Schmid	574.000						574.000	160.000	734.000
Schuling	741.000						741.000	320.000	1.061.000
Sglavo	374.000		84.000	15.000			473.000	160.000	633.000
Vehlow	1.181.000						1.181.000	320.000	1.501.000
Zannini	394.000						394.000	160.000	554.000
Zucca							-	160.000	160.000
<i>Subtotal lecturers</i>	<i>7.560.800</i>	<i>167.000</i>	<i>268.000</i>	<i>35.000</i>	<i>115.000</i>	<i>8.000</i>	<i>8.153.800</i>	<i>4.480.000</i>	<i>12.633.800</i>
Students									
Karamanov	157.800						157.800		157.800
Martinez	203.000						203.000		203.000
<i>Subtotal students</i>	<i>360.800</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>360.800</i>	<i>-</i>	<i>360.800</i>
Total	7.921.600	167.000	268.000	35.000	115.000	8.000	8.514.600	4.480.000	12.994.600
Bank and exchange charges									376.000
Secretarial services									625.000
TOTAL									13.995.600

DOCUMENTS REGARDING THE EXPENSES

DIRECTLY SUSTAINED BY FORGEA



cale
/A:
1924

SPETT.LE
17387 CONSORZIO FORGEA INTERNATIONAL

CENTRO ASSISTENZA SOFTWARE:
Tel.: 070 65.85.18
E-mail: buffetti.dess@ntt.it

VIA MONTEVERDI 16
IGLESIAS CA

DOCUMENTO		DATA	NUMERO
[REDACTED]		17-11-98	11814
CFISCALE	DESCRIZIONE PAGAMENTO	C. PAG	
58790926	R.D. FATTURA A VISTA	1	
SECONDO INDIRIZZO		FOGLIO	
D/O ING. ULLU ENSA VIA XXIX NOVEMBRE CAGLIARI CA		1	

CODICE ARTICOLO	DESCRIZIONE	QUANTITÀ	PREZZO UNITARIO	SCONTO	COD. IVA	IMPORTO
	BLOCCHI A4	3	12.600.00		20	37.800
	PENNE NERE FABER	1	11.500.00		20	11.500
	PENNARELLI PUNTA MEDIA	7	2.600.00		20	18.200
	CARTA LASER	1	29.400.00		20	29.400
	LUCIDI FOTOCOPIABILI	1	26.000.00		20	26.000
	FLOPPY HD	1	10.000.00		20	10.000
	BUSTE 11X23	100	70.00		20	7.000

CONDIZIONI GENERALI DI VENDITA
Le fatture dovranno essere pagate puntualmente alle scadenze indicate. In caso contrario saranno applicati gli interessi di mora al tasso corrente di mercato per il quale verrà emessa nota di addebito e relative ricevute bancarie con scadenza a vista.

PAGATO 18.11.98
Alan Ippolito

Totale Merce 139.900		IMPORTO ESENTE	CODICE E NORMA DI ESESIONE		SPESE BANCARIE	COMMESSA
						2
IMPONIBILE	% ALIQ.	IMPOSTA	TOTALE		FRMA PER AVVENUTA CONSEGNA	
116.583	20	23.317	139.900		<i>[Signature]</i>	
				139.900		
TALE IMPONIBILE	TOTALE IVA		BOLLO	BOLLO EFFETTI	TOTALE FATTURA	
116.583	23.317				139.900	
A VISTA		139.900				
CFISCALE N.	EP 22104076		SCONTRINO FISCALE N.		95 emesso in pari da	



Fiscale
a IVA:
940924

SPETT.LE
17387 CONSORZIO FORGEA INTERNATIONAL

CENTRO ASSISTENZA SOFTWARE:
Tel.: 070 65.85.18
E-mail: buffetti.dessi@ntt.it

VIA MONTEVERDI 16
IGLESIAS CA

tura		DOCUMENTO	DATA	NUMERO
CODICE FISCALE			26-11-98	12212
2458790926	DESCRIZIONE PAGAMENTO			
APPOGGIO	R.D. FATTURA A VISTA	SECONDO INDIRIZZO	VIA MONTEVERDI 16	C. PAG
			IGLESIAS CA	1
				FOGLIO

CODICE ARTICOLO	DESCRIZIONE	QUANTITÀ	PREZZO UNITARIO	SCONTO	COD. IVA	IMPORTO
	PORTATESSERINI	30	1.200.00		20	36.000
	BUSTE FARATE	1	6.500.00		20	6.500
	CARTELLA CON ANELLI	2	7.500.00		20	15.000
	PORTAMINE	1	20.000.00		20	20.000
	FORBICI	1	5.850.00		20	5.850
	NASTRO MAGIC	2	4.200.00		20	8.400
011414000	CUCITRICE BUFF. CIAK ROSSO	1	20.500.00		20	20.500
	LEVAFUNTI	1	3.950.00		20	3.950
	CORRETTORE ROLLER	1	4.500.00		20	4.500
	CORRETTORE BLANCO	1	2.000.00		20	2.000
	PENNARELLO PENTEL	3	2.600.00		20	7.800
	EVIDENZIATORI	2	170.00		20	340
	PUNTI 130/E	2	1.500.00		20	3.000
	MINE OS	2	1.400.00		20	2.800
	GOMMA X MATITA	1	1.300.00		20	1.300
	CARTELLINA CON APPENDINO	1	5.000.00		20	5.000
	FERMAGLI N4	1	500.00		20	500
	BL POST IT	1	12.200.00		20	12.200
	COLLA STICK	1	2.500.00		20	2.500

PAGATO
27-11-98

CONDIZIONI GENERALI DI VENDITA
Le fatture devono essere pagate puntualmente alle scadenze fissate in caso contrario verranno addebitati gli interessi di mora al tasso corrente di mercato per i quali verrà emessa nota di addebito e relativa ricevuta bancaria con scadenza a vista.

Totale Merce		IMPORTO ESENTE	CODICE E NORMA DI ESENZIONE		SPESE BANCARIE	COMMI
158.140						5
IMPONIBILE	% ALIQ.	IMPOSTA	TOTALE	FIRMA PER AVVENUTA CONSEGNA		
131.783	20	26.357	158.140			
TOTALE IMPONIBILE	TOTALE IVA	BOLLO	BOLLO EFFETTI	TOTALE FATTURA		
131.783	26.357			158.140		
A VISTA	158.140					



Fiscale
IVA:
140924

SPETT.LE
17387 CONSORZIO FORGEA INTERNATIONAL

CENTRO ASSISTENZA SOFTWARE:
Tel.: 070 65.85.18
E-mail: buffetti.dessi@ntt.it

VIA MONTEVERDI 16
IGLESIAS CA

ura		DOCUMENTO	DATA	NUMERO	C. P.
DICE FISCALE			26-11-98	12247	1
458790926	DESCRIZIONE PAGAMENTO				FOG
POGGIO	R.D. FATTURA A VISTA	SECONDO INDIRIZZO	VIA MONTEVERDI 16		
			IGLESIAS CA		

CODICE ARTICOLO	DESCRIZIONE	QUANTITÀ	PREZZO UNITARIO	SCONTO	COD. IVA	IMPORTO
	PORTA BIGLIETTI	20	1.000,00		20	20.000

PAGATO

27-11-98

CONDIZIONI GENERALI DI VENDITA
Le fatture devono essere pagate puntualmente alla scadenza fissata. In caso contrario verranno addebitati gli interessi di mora al tasso corrente di mercato per i quali verrà emessa nota di addebito e relativa ricevuta bancaria non scadenza a vista.

Totale Merce		IMPORTO ESENTE	CODICE E NORMA DI ESESIONE		SPESE BANCARIE	COMMESSA
20.000						5
IMPONIBILE	% ALIQ.	IMPOSTA	TOTALE	FIRMA PER AVVENUTA CONSEGNA		
16.666	20	3.334	20.000	20.000		
TOTALE IMPONIBILE		TOTALE IVA	BOLLO	BOLLO EFFETTI	TOTALE FATTURA	
16.666		3.334			20.000	
A VISTA	20.000					



Iscale
IVA:
40924

SPETT.LE
17387 CONSORZIO FORGEA INTERNATIONAL

CENTRO ASSISTENZA SOFTWARE:
Tel.: 070 65.85.18
E-mail: buffetti.dessi@ntt.it

VIA XXIX NOVEMBRE 41
CAGLIARI CA

tura		DOCUMENTO	DATA	NUMERO
INDICE FISCALE			23-12-98	13249
2458790926	DESCRIZIONE PAGAMENTO			C. PAG.
PPGGIO	CONTANTI	SECONDO INDIRIZZO	VIA XXIX NOVEMBRE 41	FOGLIO
			CAGLIARI CA	

CODICE ARTICOLO	DESCRIZIONE	QUANTITÀ	PREZZO UNITARIO	SCONTO	COD. IVA	IMPORTO
	CONSORZI IPSOA	1	83.000,00		74	83.000

PROVATO

Contributo ambientale CONAI assolto.

Totale Merce		IMPORTO ESENTE	CODICE E NORMA DI ESENZIONE		SPESE BANCARIE	COMMES
83.000		83.000	74 = IVA ASSOLTA ART. 74 DPR 633/7			3
IMPONIBILE	% ALIQ.	IMPOSTA	TOTALE	FIRMA PER AVVENUTA CONSEGNA		
83.000			83.000			
TOTALE IMPONIBILE		TOTALE IVA	BOLLO	BOLLO EFFETTI	TOTALE FATTURA	
83.000					83.000	

ITORE FISCALE N. 070 28104076

SCONTRINO FISCALE N. 83

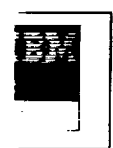
emesso in parti



o Vittorio Emanuele, 30/32 - 09124 Cagliari - Tel.: 070 66.91.45 - Fax: 070 67.08.15

ce Fiscale
rita IVA:
13840924

SPETT.LE
17387 CONSORZIO FORGEA INTERNATIONAL



CENTRO ASSISTENZA SOFTWARE:
Tel.: 070 65.85.18
E-mail: buffetti.dessi@ntt.it

VIA MONTEVERDI 16
IGLESIAS CA


Fattura		DOCUMENTO	DATA	NUMERO
[REDACTED]			24-11-98	12095
CODICE FISCALE	DESCRIZIONE PAGAMENTO			
02458790926	R.D. FATTURA A VISTA			
INDIRIZZO		SECONDO INDIRIZZO		C. PA.
		VIA MONTEVERDI 16 IGLESIAS CA		FOG.

CODICE ARTICOLO	DESCRIZIONE	QUANTITÀ	PREZZO UNITARIO	SCONTO	COD. IVA	IMPORTO
	BORSA LEBEZ PORTADOCUMENTI	26	27.000.00		20	702.000

CONDIZIONI GENERALI DI VENDITA
 Le fatture devono essere pagate puntualmente alle scadenze fissate in caso contrario verranno addebitati gli interessi di mora al tasso corrente di mercato per i quali verrà emessa nota di addebito e relativa ricevuta bancaria con scadenze a vista.

Totale Merce 702.000		IMPORTO ESENTE	CODICE E NORMA DI ESENZIONE		SPESE BANCARIE	COMA
IMPONIBILE	% ALIQ.	IMPOSTA	TOTALE	FIRMA PER AVVENUTA CONSEGNA		
585.000	20	117.000	702.000			
TOTALE IMPONIBILE	TOTALE IVA	BOLLO	BOLLO EFFETTI	TOTALE FATTURA		
585.000	117.000			702.000		
A VISTA		702.000				

P.IVA.00146910322

GESTIONE GOVERNATIVA FERROVIE MERIDIONALI SARDE AUTOSERVIZI		DECINE									
Biglietto Facoltativo di corsa semplice	Serie A N° 075158	10	20	30	40	50	60	70	80	90	
	CENTINAIA										
Dal GLESIAS a MONTEFONI E VIC. via Km. 10		100	200	300	400	500	600	700	800	900	
Viaggiatori N.40 L. 880.000 CORSE R.S. SULLA LINEA A 5220 - DAL 30 NOV AL 10 DIC. 58 25 NOV. 1998 Data e Timbro		MIGLIAIA									
PAGATO 		1000	2000	3000	4000	5000	6000	7000	8000	9000	10000 e oltre
Vale per il solo giorno di emissione.											



Pan di Zucchero
 Floris Giovanni
 Tel. 0781/47114 - 09010 NEBIDA (CA)
 Luogo Cons. Doc. Ric. NEBIDA - Via Corralle 365 - Cod. Fisc. FLA GAN 60904 E2814 - Partita IVA 02193270928

DATI IDENTIFICATIVI DEL CLIENTE
Comparto 1
FOR. G. A. COLLARI

QUANTITA'	DESCRIZIONE	IMPORTO
	COPERTI	
	VINO - BIRRA	
	ACQUA MINERALE	
	PIZZA	
	ANTIPASTI	
	PRIMI PIATTI	
	<i>Insalata n° 113/10/6</i>	
	SECONDI PIATTI	
	<i>630.000</i>	
	CONTORNI <i>Au di sda</i>	
	FORMAGGI <i>non pagato</i>	
	FRUTTA	
	DOLCI - DESSERT	
	CAFFE' - LIQUORI	
	<i>ll</i> MENU' A PREZZO FISSO <i>ll</i>	<i>660.000</i>
CONTEGGIO IVA _____ %	Corrispettivo pagato	<i>660.000</i>
IMPONIBILE	Corrispettivo non pagato	
IMPOSTA	Servizio _____ %	
TOTALE	Totale documento	<i>660.000</i>
NUMERO <i>1919</i>	DATA <i>08/10/98</i>	TAVOLO N.

RICEVUTA FISCALE FATTURA FATTURA (RICEVUTA FISCALE) LEGGE 30.12.91 N. 413 - D.M. 30.03.92

Tip. CELLA di Cella Paolo & C. snc - Viale S. Avendrace 211 Cagliari - A.M.F. VI-12-163/193 del 21/10/1993

XAB 39127 /98
1/2 Am.



Pan di Zucchero

Floris Giovanni
Tel. 0781/47114 - 09010 NEBIDA (CA)

Luogo Cons. Doc. Nebida - Via Correggio 365 - Cod. Fisc. FLA GNV 60504 E2814 - Partita IVA 02185270928

DATI IDENTIFICATIVI DEL CLIENTE

FOR. G.E.A. *composto?*
collari

QUANTITA'	DESCRIZIONE	IMPORTO
	COPERTI	
	VINO - BIRRA	
	ACQUA MINERALE	
	PIZZA	
	ANTIPASTI	
	PRIMI PIATTI	
	<i>Disce No 113/16/6</i>	
	SECONDI PIATTI	
	<i>63.000</i>	
	CONTORNI <i>Au disce</i>	
	FORMAGGI <i>mau Barydes</i>	
	FRUTTA	
	DOLCI - DESSERT	
	CAFFE' - LIQUORI	
<i>RE</i>	MENU' A PREZZO FISSO <i>660.000</i>	
CONTEGGIO IVA	Corrispettivo pagato	<i>660.000</i>
IMPONIBILE		
IMPOSTA	Servizio _____ %	
TOTALE	Totale documento	<i>660.000</i>
NUMERO <i>1919</i>	DATA <i>08/10/98</i>	TAVOLO N.

RICEVUTA FISCALE FATTURA (RICEVUTA FISCALE) LEGGE 30.12.91 N. 413 - D.M. 30.03.92

Tip. CELLA di Cella Paolo & C. snc - Viale S. Avendrace, 211 Cagliari - A.M.F. VI-12-1631/93 del 21/10/1993

XAB 39127 198

1/2 An.

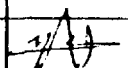
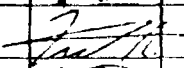

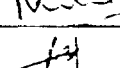
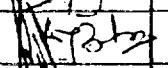
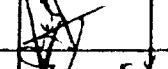


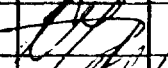
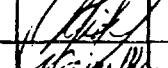
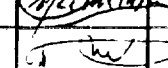


Proiezione di lavoro durante
le visite tecniche del
Corso FORGEA del 8/12/88.

La cifra pagata è stata di
£ 630.000 (seicentotrentamila)

e seguito di una nuova di
£ 30.000 da parte del
ristoratore.



I have received £ 240,000 as pocket money for the period 30.11.98 - 11.12.98

		date	signature
Mr Adaileh		4-12-98	
Mr Al Ali		3-12-98	
Mr Amaireh		3-12-98	
Mr Bansal		3-12-98	
Mr Belkadi		03-12-98	
Mr Bhandari		3-12-98	
Mr Martinez		Dec 4 '98	
Mr Dominguez		4/xi/98	
Mr Castro		02/12/98	
Mr Hasnaoui		02/12/98	
Mr Karamanov		4/12/98	
Mr Vidal		02-12-98	
Mr Tawfik		4-12-98	
Mr Zouaghi		06.12.98	