

## 11. 面会者リスト

9月25日 (水)

1. JICA事務所 (Tel: 2-839-3081, Fax: 2-816-4222)

宿野部 雅美 (しゅくのべ まさみ) 氏、 JICA事務所業務班長

中澤 哉 (なかざわ はじめ) 氏、 JICA事務所業務班

蟹江 和則 (かにえ かずのり) 氏、 JICA専門家 (MMDA)

9月26日 (木)

1. 日本大使館 (Tel: 2-895-9050, Fax: 2-895-9040, 2-895-1042)

依田 紀彦 (よた のりひこ) 氏、一等書記官

宿野部 雅美氏、

中澤 哉氏、

蟹江 和則 氏、

2. MMDA (Tel: 2-815-6020, Fax: 2-815-6193)

Mr. Prospero I. ORETA, Chairman of MMDA: MMDA

Mr. Rogelio U. URANZA, Head Infra Planning & Dev't Group,

Solid Waste Management Task Force: MMDA

Ms. Elsie I. ENCARNACION, Planning Officer, Infra Planning & Dev't Group,

Solid Waste Management Task Force: MMDA (蟹江氏のカウンター・パート)

Ms. Maria Theresa R. MILLAN, Project Management Office: MMDA (蟹江氏の  
カウンター・パート)

蟹江 和則 氏、

3. DENR (Tel: 2-983-3771, 2-927-0224, Fax: 2-924-7540, 2-975-698)

Mr. Albert Altarejos MAGALANG, Head Project Management Office,  
Presidential Task Force on Waste Management: DENR, Environmental  
Management Bureau

Ms. Elsie I. ENCARNACION,

Ms. Maria Theresa R. MILLAN,

蟹江 和則 氏、

9月27日 (金)

1. ローカル・コンサルタント及び NGO、MMDAにて

(ローカル・コンサルタント)

Mr. Raulinson B. DIMAYUGA, President of TEST Consultants, INC.

Mr. Danilo J. CASTILLON: TEST Consultants, Inc.

Mr. Tom HALL, Project Manager of Toxic and Hazardous Waste Management  
Study, Metro Manila: ENTEC

(NGO)

Ms. Leonarda N. CAMACHO, vice-president of Metro Manila Linis-Ganda, Inc.

(MMDA)

Mr. Rogelio U. URANZA,

Ms. Elsie I. ENCARNACION,

Ms. Maria Theresa R. MILLAN,

(JICA)

宿野部 雅美氏、

中澤 哉氏、

蟹江 和則氏、

## 2. I/Aに関する協議

(MMDA)

Mr. Rogelio U. URANZA,

Ms. Elsie I. ENCARNACION,

Ms. Maria Theresa R. MILLAN,

Mr. Beato R. SASON, Assistant General Manager Operations

Mr. Alexander UMAGAT, Head of Operations Group of SWMTF

蟹江 和則氏、

## 3. 質問表への回答

(MMDA)

Mr. Rogelio U. URANZA,

Ms. Elsie I. ENCARNACION,

Ms. Maria Theresa R. MILLAN,

Mr. Beato R. SASON, Assistant General Manager Operations

Mr. Alexander UMAGAT,

蟹江 和則氏、

9月28日 (土)

### 1. サン・マテオ衛生埋立処分場視察

(民間委託による運営業者)

Mr. Jesus TEXON, Project Manager San Mateo, Metropolitan Environmental Service

(MMDA)

Mr. Rogelio U. URANZA,

Ms. Maria Theresa R. MILLAN,

Mr. Alexander UMAGAT,

蟹江 和則氏、

### 2. バヤタス オープンダンプサイト視察

(PHILSSA)

Ms. Carmel V. ABAO,  
(Vincentian Missionaries Social Development Foundation, Inc.)  
Mr. Rev. Norberto L. CARCELLAR, CM, Project Director  
(MMDA)

Mr. Rogelio U. URANZA,  
Ms. Maria Theresa R. MILLAN,  
蟹江 和則 氏、

3. カトモン オープンダンプサイト視察  
(MMDA)

Ms. Maria Theresa R. MILLAN,  
蟹江 和則 氏、

9月30日 (月)

1. ADB (Tel: 2-632-4444, Fax: 2-632-2444)

Mr. Sermopol RATASUK, Ph.D. Senior Environment Specialist, Environment  
Division, Office of Environment and Social Development  
Mr. Ely Anthony R. OUANO, Environment Specialist, Office of Environment and  
Social Development  
Mr. Atsuhiko KIMURA, Environment Specialist, Environment Division, Office of  
Environment and Social Development  
依田 紀彦氏、  
宿野部 雅美氏、  
中澤 哉氏、  
蟹江 和則 氏、

2. MMDA I/A協議

Mr. Rogelio U. URANZA,  
Ms. Elsie I. ENCARNACION,  
Ms. Maria Theresa R. MILLAN,  
蟹江 和則 氏、

3. ENTEC 有毒・産業廃棄物処理のM/Pを請け負って作成しているコンサルタント。  
(Tel 929-8789, Fax 924-9159)

Mr. Tom HALL, Project Manager of Toxic and Hazardous Waste Management  
Study, Metro Manila: ENTEC  
Ms. Flordeliz Y. GUARIN Ph.D, Manager- Philippine Office of Dames & Moore

10月1日 (火)

1. PIS-NEDA

Ms. C. SANTIAGO

2. マカティ市

Mr. Raul JAVIER, 市議会議員

Mr. John Y. ATILANO, 市議会議員 他公共事業課の職員

Ms. Maria Theresa R. MILLAN,

蟹江 和則 氏、

3. バサイ市ゴミ収集踏査

4. ラス・ピニャス中継基地踏査

5. カルモナ衛生埋立処分場踏査

Mr. Greg F. ALCERA, City councilor of Pasay city

Mr. Bounq Q. ANONUEVO, Legislative staff of Office of Councilor,

(Greg F. ALCERA)

Ms. Maria Theresa R. MILLAN,

蟹江 和則 氏、

10月2日 (水)

1. NHA (Tel 923-0386)

Ms. Zonia G. GALVEZ, Group Manager NCR

Ms. Maria Theresa R. MILLAN,

蟹江 和則 氏、

2. スモーキー・マウンテン跡地

Mr. Engr. Arthur CABANTAC, Director of Smoky Mountain Development and Reclamation Project

蟹江 和則 氏、

3. NGOのトレーニング・センター踏査 ( Smoky mountainのスカベンジャーの仮説住宅で職業訓練をしている。 ) ( Tel 252-6808 )

Mr. Robert G. MANANQUIL

蟹江 和則 氏、

4. MMDA 最終打ち合わせ

蟹江 和則 氏、

10月3日 (木)

1. I/A 及び M/M 調印

Mr. Prospero I. ORETA, Chairman of MMDA: MMDA

Mr. Rogelio U. URANZA, Head Infra Planning & Dev't Group, Solid Waste

Management Task Force: MMDA

Ms. Elsie I. ENCARNACION, Planning Officer, Infra Planning & Dev't Group,

Solid Waste Management Task Force: MMDA

宿野部 雅美氏、

蟹江 和則氏、

2. TEST サン・マテオとカルモナの衛生埋立設計を請け負った民間コンサルタント (Tel 96-4835)

Mr. Raulinson B. DIMAYUGA, President of TEST Consultants, INC.

Mr. Danilo J. CASTILLON: TEST Consultants, Inc.

10月4日 (金)

1. EMB (DENR)

Ms. Amelia O. SUPETREN, O/C Assitant Director, EMB

Mr. Albert A. MAGALANG, Head, PMO-PTFWM, EMB

Mr. Rodolfo M. PAGARIGAN, Sr. Environmental Management Specialist, EMB

2. 日本大使館

3. JICA事務所

後藤 洋 所長

4. OECF事務所 (Tel 810-4826)

江島 真也 氏

10月7日 (月)

1. マニラ市 Department of Public Service (Tel 525-8302)

Mr. Chito L. NOMBRES, Civil / Sanitary Engineer, Department of Public Service, City of Manila

2. サンファン市 ( Office of the Sangguiang Bayan (議員) )

Mr. Hon. Rodolfo P. CHUA, Councilor, Asst. Floor Leader, Municipality of San

Juan

10月8日 (火)

1. NUTEC (トラックスケールの現地作業請負業者の候補)

2. 世界銀行 (Tel 526-9031)

Ms. Maria Bella T. BELIZARIO, Operations Officer, the World Bank

10月9日 (水)

1. Recycling Movement in the Philippines (発生源リサイクルを進める NGO) (Tel 928-8895)

Ms. Luz Escalante SABAS, President Recycling Movement of the Philippines, Foundation, Inc.

Mr. Aberardo "Abel" R. CLEMENTE, Vice President and Operation Manager,  
Mr. Alex C. REYES, JR.

2. Linis Ganda Recycling Center (ゴミの再資源化を進める NGO) (Tel 725-7230)

Mr. Mauricio L. MANZANO, member of Linis Ganda  
Ms. Vicenta P. ORODIO, ジャンクショップ ORODIO 経営者

10月10日 (木)

1. DPWH (Tel 527-2598)

Mr. Crescenso M. ROCAMORA, Ceso II, Project Director, Urban Road Projects Office,

DPWH

Mr. Jose E. Sta. ANA, Civil Engineer, Solid Waste Management Project Management Office,

DPWH

2. AVERY (トラックスケール業者) (Tel 711-3905)

Mr. Noel E. DIAZ, Account Officer, AVERY Philippines, Inc

10月11日(金)

1. MMDA
2. JICA事務所

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial reporting and auditing. The text highlights that without reliable records, it becomes difficult to track expenses, revenues, and assets, which can lead to errors and discrepancies.

2. The second part of the document focuses on the role of technology in modern record-keeping. It mentions that digital tools and software solutions have significantly improved the efficiency and accuracy of data management. These tools allow for real-time updates, secure storage, and easy access to information, reducing the risk of data loss and ensuring that records are up-to-date and consistent.

3. The third part of the document addresses the legal and regulatory requirements for record-keeping. It notes that various industries and jurisdictions have specific rules regarding the retention and protection of records. Organizations must be aware of these requirements to avoid penalties and ensure compliance. The text also discusses the importance of data security and privacy, especially when handling sensitive information.

4. The fourth part of the document discusses the challenges of record-keeping in a rapidly changing environment. It mentions that the volume and complexity of data are increasing, making it more difficult to manage and analyze. Additionally, the text highlights the need for ongoing training and education for staff to stay current with the latest technologies and best practices in record-keeping.

5. The fifth part of the document concludes by emphasizing the long-term benefits of a robust record-keeping system. It states that well-maintained records can provide valuable insights into organizational performance, support decision-making, and facilitate compliance with legal and regulatory obligations. The text also notes that a strong record-keeping system can enhance the overall credibility and trustworthiness of an organization.

6. The sixth part of the document discusses the importance of regular audits and reviews of the record-keeping system. It mentions that periodic audits help identify any weaknesses or areas for improvement in the system. The text also notes that audits can provide assurance to stakeholders that the records are accurate and reliable. Regular reviews are also essential for ensuring that the system remains up-to-date and compliant with the latest regulations and standards.

7. The seventh part of the document discusses the role of internal controls in record-keeping. It mentions that strong internal controls are essential for preventing errors and fraud, and ensuring that records are accurate and complete. The text highlights that internal controls should be designed to provide a clear and consistent process for recording and maintaining data, and that they should be regularly tested and updated.

8. The eighth part of the document discusses the importance of data backup and recovery. It mentions that regular backups are essential for protecting records from data loss due to hardware failure, software issues, or other disasters. The text also notes that a robust recovery plan is necessary to ensure that records can be restored quickly and accurately in the event of a disaster. This is particularly important for organizations that rely heavily on their records for operations and compliance.

9. The ninth part of the document discusses the importance of data retention and archiving. It mentions that organizations should have a clear policy regarding how long records should be kept and how they should be archived. The text notes that retaining records for too long can be costly and inefficient, while retaining them for too short a period can lead to the loss of important information. A well-defined retention and archiving policy is essential for managing records effectively and ensuring that they are available when needed.

10. The tenth part of the document concludes by summarizing the key points discussed in the document. It emphasizes that record-keeping is a critical function for any organization, and that a robust system is essential for ensuring accuracy, transparency, and compliance. The text also notes that ongoing attention and investment in record-keeping are necessary to keep the system up-to-date and effective in a constantly changing environment.

## 関 連 資 料

1. DENR登録者EIA実施コンサルタントリスト  
現地再委託に係るローカルコンサルタント
2. 現地再委託業務にかかるコンサルタント料の見積例
3. 民間分析ラボ
4. SWMに係るNGOリスト



1. DENR登録済EIA実施コンサルタント

LIST OF CONSULTANCY FIRMS  
THAT PREPARE EIA DOCUMENTS<sup>1</sup>

**ADELCON INC.**

Hydro Resources System Consultants  
35 Antoinette Street, Parkway Village  
San Francisco Del Monte,  
Quezon City, Philippines  
Tel. NOS. 362-09-50  
Fax No. 362-09-50

**ASIA GEODYNE CORPORATION**

Rm. 403 Bercion Building  
1186 Quezon Avenue, Quezon City  
Tel. Nos. 966-519  
Fax No. (632) 966-519

**ASSOCIATES IN ENVIRONMENTAL MANAGEMENT, INC.**

Rm. 1202, 12 F Cityland Condominium 10  
Tower II, H.V. dela Costa corner Alfaro Sts.  
Makati City  
Fax No. 892-6680  
Tel. No. 892-6676/77

**BHP ENGINEERING PHILS., INC.**

6th Floor Port Royal Building  
118 Rada St., Legaspi Village  
Makati, Metro Manila Philippines  
Tel. Nos. 817-26-67 / 817-27-15

**CENTER FOR ECONOMIC POLICY RESEARCH**

2nd Floor, Zeta Building  
191 Salcedo Street, Legaspi Village  
Makati City, Philippines  
Tel. Nos. 10-43-66 to 87 / 812-04-14  
Fax No. 810-34-33

**CEST INC. CONSULTANTS**

10/F Strata 2000 Building  
Emerald Avenue, Pasig  
Metro Manila, Philippines  
Tel. Nos. 631-75-20 / 631-75-21  
Fax No. 631030-80

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<sup>1</sup>ARRANGED IN ALPHABETICAL ORDER. PLEASE NOTE THAT ACCREDITATION OF CONSULTING FIRMS IS STILL UNDER STUDY BY THE DENR-EMB.

**COFFEY MPW PTY LTD.**  
International Consulting Company  
MPW Manila Inc. - Local Consulting Company  
10th F. Strata 100 Building  
Emerald Avenue, Ortigas Centre,  
Pasig, Metro Manila, Philippines

**COWICONSULT**  
Consulting Engineers and Planners A/S  
Room 601, 6th Floor, Emerald Building  
No. 14 Emerald Avenue, Ortigas Center  
Pasig, Metro Manila, Philippines  
Tel Nos. 633-39-98 / 633-40-03  
Telefax No. 633-40-03

**DAMES AND MOORE INTERNATIONAL, USA**  
V. Esquerro Building, 140 Amorsolo  
Makati, Metro Manila  
Philippines

**ECONOMIC DEVELOPMENT FOUNDATION**  
6th Floor Eurasia Building  
Ayala Avenue, Makati,  
Metro Manila, Philippines

**ECOPLAN, CO.**  
Environmental Planning Partnership Firm  
108 Kalayaan Avenue  
Diliman, Quezon City, Philippines  
Tel. No. 921-73-83  
Fax No. 922-13-68

**ECOSYS CORPORATION**  
Room 203, No. 31 Kamias Road, Quezon City  
Fax/Tel. No. 922-8675  
Beeper 150-601-774 or 141-120-871

**ENVIRONMENTAL CONSULTANTS COOPERATIVE**  
1589 Iriga Street, #4E, Makati  
Dona Generosa Bldg., Suite 509  
282 EDSA Ext., Pasay City

**ENVIRONMENTAL AND RISK MANAGEMENT (Philippines)**  
2/F, JDI Bldg., No. 222 Sen. Gil J. Puyat Ave.  
Makati, Metro Manila  
Tel. No. (632) 893-2875  
Fax No. (632) 844-4623

**FILTEKNIK CONSULTANTS, INC.**  
Suite 695 FMSG Building  
No.9 Balite Drive, New Manila  
Quezon City, Philippines  
Tel. Nos. 722-53-52, 77-38-86 loc. 42

**GAIA SOUTH ,INC.**  
Environmental Consultants  
7/F Montepino Building  
Legaspi Village, Makati City  
Philippines  
Tel. No. 632-08-05  
Fax No. 631-21-55

**GEOTEKNIKA**  
Technical and Consultancy Services  
F-105 Hardin ng Bougainvillea,  
Purok Aguinaldo, U.P. Diliman,  
Quezon City, Philippines  
Tel Nos. (0912) 312-2514  
Telefax No. (0912) 311-3916

**HENORI ENVIRONMENTAL CONSULTANTS**  
Unit 204, Rizalina Building Annex  
1677 Quezon Avenue, Quezon City  
Tel. No. 974-824

**LOGISTIC MARKETING PHILS., INC.**  
2nd Floor, P & L Building  
116 Legaspi Street, Legaspi Village  
Makati, Metro Manila  
Tel. No. (632) 8158836/39  
Fax No. (632) 8179978

**LOUIS BERGER INTERNATIONAL , INC.**  
TM-8910 Mile Long Center  
Herrera corner Amorsolo Streets  
Legaspi Village, City of Makati  
Tel. No. (632) 812-3556 to 58  
Fax No. (632) 819-3965

**LOWNEY ASSOCIATES**  
20 B Kaliraya Street, SMH  
Quezon City, Philippines 3008  
Tel. Nos. 712-29-97 / 712-33-83  
Fax No. 732-48-27

**MADECOR-ENVIRONMENTAL MANAGEMENT SYSTEMS, INC.**  
6th Floor, Sarmiento II Bldg.,  
Pasong Tamo Extension  
Makati City, Philippines  
Tel. Nos. 816-72-79 / 812-99-75 / 812-99-77  
816-74-61 to 72 local 263

**MAUNSELL PHILIPPINES, INC.**  
8/F Royal Match Building  
6780 Ayala Avenue, Makati City  
Phone: 814-0401  
Fax : 814-0408

**ORIENT INTGRATED DEVELOPMENT CONSULTANTS, INC. (OIDCI)**  
Unit E, Bohol Mansions  
43 Sgt. E. A. Esquerro Avenue  
corner Scout Albano Street,  
Quezon City, Philippines  
Tel. Nos. 924-17-80 / 924-12-40 / 922-2715 / 922-26-21  
Fax No. 924-17-85

**SCHEMA KONSULT , INC.**  
7th Floor JMT Corporate Condominium  
ADB Avenue, Ortigas Complex  
Pasig, Metro Manila, Philippines  
Tel. No. 631-16-91 to 93 / 634/16-91 to 94  
Fax No. 632-07-40

**SCIENCE RESEARCH FOUNDATION**  
University of the Philippines  
Diliman, Quezon City  
Philippines

**SITECH RESOURCES GROUP, INC.**  
# 30 Macapuno St., Valle Verde I  
Pasig City  
Tel. Nos. (632) 671-5846; 671-3217  
Fax No. (632) 671-7055

**SGV CONSULTING FIRMS**  
SGV Building II, 6758 Ayala Avenue  
Makati, Metro Manila, Philippines  
Tel Nos. 819-30-11 to 58  
Fax No. 817-41-93

**SNJ CONSULTING ENGINEERS AND GEOLOGISTS**  
31 Meralco Avenue, Pasig  
Metro Manila, Philippines  
Tel. No. 632-03-68  
Fax No. 632-03-69

**TECHNOTRIX PHILIPPINES, INC.**  
Suite 605 FMSG Building  
Balet Drive corner 3rd Street  
Quezon City, Philippines  
Tel Nos. 77-38-86 loc 42 / 722-53-52  
Fax No. 722-55-04

**TEEM, INC.**  
Room 409, Dona Amparo Building  
España corner Cataluna Street  
Manila, Philippines  
Tel. No. 732-54-20 / 731-39-79  
Fax No. (632) 731-39-73

**TEST CONSULTANTS, INC.**  
Penthouse 3 Condominium  
Timog Avenue corner Mother Ignacia Ave.  
Quezon City  
Tel. No. 411-1332

**TOTAL CONSULTANCY SERVICES, INC.**  
Room 405 Danarra Condominium  
Metropolitan Avenue corner Mola Street  
Makati, Metro Manila  
Philippines

**UNICONSULT PLANNERS, MANAGEMENT AND SYSTEMS CONSULTANTS,  
INC.**  
9 Floor Filgarcia Tower, 140 Kalayaan Avenue  
Diliman, Quezon City  
Tel. Nos. 924-8558/924-8560  
Fax No. (632) 924-8562

**WASTECON**  
Waste and Environmental Management Consulting Firm  
9/F Filgarcia Tower, 140 Kalayaan Avenue  
Diliman, Quezon City, Philippines  
Tel. No. 924-85-61  
Fax No. 924-85-62

**WOODWARD-CLYDE PHILS., INC.**

**3rd Floor, ALCO Building, Ortigas Avenue  
Greenhills, San Juan, Metro Manila  
Philippines**

**Tel. Nos. 70-15-76 / 78-92-56 / 788-04-03 / 78-04-05**

**78-46-38 / 70-41-79 / 70-41-51 / 722-55-53**

**Fax No. 722-94-92**

## 2. 現地再委託業務に係るコンサルタント料の見積例

事前調査で以下のローカルコンサルタントを訪問し、現地再委託業務の内容を説明して仮の見積を提示してもらったので、費用算出の例として下記に示す。(ABC順)

1. IC-Net Philippines, INC.  
Tropical Palms Unit 35, 103 Dela Rosa Street, Legaspi Village, Makati City  
Tel 632-812-1659 Fax 632-816-4152
  
2. Primary Science & Management Corp. (PSMC)  
OS-216, Sunette Tower Condominium, Durban St. Corner Makati Avenue, Bel-Air,  
Makati City  
Tel 632-897-2074 Fax 632-897-2073
  
3. SMDI Consultant, INC.  
Sulla 1001, 10F, Agustin Bldg., Emerald Ave., Pasig City  
Tel 632-634-6973 Fax 632-633-9532
  
4. TEST Consultants, INC.  
Penthouse 3 Landsdale Tower Condominium, 86 Mother Ignacia St. Corner Timog  
Avenue, Kezon City  
Tel 632-411-1332

**IC Net Philippines, Inc.**

Tropical Palms Unit 35, 103 Dela Rosa Street,  
Legaspi Village, Makati City, Metro Manila  
Philippines

Tel. Nos.: (632) 812-1659/812-1675  
Tel /Fax: (632) 816-4152

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10/ 7/1996

**TO: Mr. T. Ikeda of JICA mission C/O Mandarin Oriental Hotel (Room 537)**

**FM: T. Hikichi - IC Net Philippines, Inc.**

**RE: Cost Estimate**

Please refer to our cost estimate for the social-economic survey, for example 10 man-months work as below.

**1. Personal Expense**

Consultant (including report writing) P90,000 X 10 man-months = P900,000

**2. Lodging and Allowance (out of Metro Manila)**

N/A

**3. Car Rental**

P25,000 X 3 months X 2U/T = P150,000

**4. Interviews (if needed)**

Labour Cost (pay to the interviewers etc.) : unknown

**5. Data Processing and Analysis (if needed)**

unknown

**TOTAL DIRECT EXPENSES P1,050,000**

**Indirect Expense**

Administration/Management Fee (Total Direct Expenses) X 5% = P1,050,000 X 5% = P52,500

**GRAND TOTAL**

**P1,102,500**

**(@4.2) Yen 4,630,500**

**PSMC**

**PRIMARY SCIENCE & MANAGEMENT CORP.**

OS-210, SUNETTE TOWER CONDOMINIUM  
DURBAN ST. CORNER MAKATI AVENUE  
BEL-AIR, MAKATI, METRO MANILA, PHILIPPINES  
TEL. NOS. 8972074, 73, 76  
FAX NO. 8972073

**MR. KAZUHIRO NAKAISHI**  
Member JICA Mission

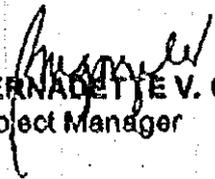
**SUBJECT: SURVEY ON THE PUBLIC AWARENESS FOR SOLID WASTE  
MANAGEMENT**

Dear Sir:

May we submit the attached proposed budgetary cost and implementation plan for the above mentioned survey. We hope that it will meet your requirements and we can work with you on this project early next year.

Thank you very much for considering our company.

Sincerely yours,

  
**BERNADETTE V. GONZALES**  
Project Manager

Oct. 11, 1996

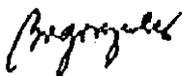
SIR,

I AM VERY SORRY I JUST SEND IT NOW BECAUSE THE LAST TIME WE TALKED, I THOUGHT YOU WERE REFERRING TO AUG. 11 INSTEAD OF AUGUST 18.

HOWEVER, I AM SENDING THE ATTACHED DOCUMENT FOR YOUR KIND CONSIDERATION AND I HOPE YOU UNDERSTAND.

PLEASE FEEL FREE TO CALL US FOR ANYTHING YOU FURTHER NEED HERE IN MANILA.

THANK YOU AND REGARDS.



**SURVEY ON THE PUBLIC AWARENESS FOR SOLID WASTE MANAGEMENT  
PROPOSED BUDGETARY COSTS**

<b>PROPOSED EXPENDITURE ITEMS</b>	<b>NO. OF PERSON MONTHS</b>	<b>RATE/ MONTH</b>	<b>TOTAL</b>
<b>1. Consultancy Services</b>			
1.1 Project Coordinator	6	50,000.00	300,000.00
1.2 Statistician (2)	8.5	45,000.00	382,500.00
1.3 Computer Specialist (2)	6	45,000.00	270,000.00
1.4 Training Officer	2	45,000.00	90,000.00
<b>2. Other Personnel Services</b>			
2.1 Surveyors (20)	400 days	300/d	120,000.00
2.2 Encoders (4)	80 days	250/d	20,000.00
2.3 Secretary	6	5,000.00	30,000.00
<b>3. Vehicle Rental</b>	5	30,000.00	150,000.00
<b>4. Production Costs, Supplies &amp; Materials</b>	6	25,000.00	150,000.00
<b>Sub-Total (1)</b>			<b>1,512,500.00</b>
<b>5. Management Fee (15%)</b>			<b>226,875.00</b>
<b>6. Contingency (5%)</b>			<b>75,625.00</b>
<b>Sub-Total (2)</b>			<b>1,815,000.00</b>
<b>VAT (10%)</b>			<b>181,500.00</b>
<b>GRAND TOTAL</b>			<b>1,996,500.00</b>

**SURVEY ON THE PUBLIC AWARENESS FOR SOLID WASTE MANAGEMENT  
PROPOSED IMPLEMENTATION PLAN**

MONTH	1				2				3				4				5				6			
WORK ACTIVITIES	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>Phase 1: Survey Design</b>																								
Survey Planning	■																							
Listing of Research Questions		■																						
Timetable Preparation			■																					
Budget Preparation				■																				
Obtaining Official Permissions					■																			
Mapping of Targeted Respondents						■																		
<b>Phase 2: Validation of Survey</b>																								
Instruments																								
Preparation of Survey Forms																								
Drafting of a Tabulation Plan																								
Discussion & Modification of Forms																								
Field Testing																								
Establishment of Work Procedures																								
Finalization of Survey Form																								
Reproduction of Survey Forms																								
Planning the Staff Training Program																								
<b>Phase 3: Fieldwork</b>																								
Assembling the Fieldwork Team																								
Staff Training																								
Completing the Fieldwork																								
Supervision of Fieldworkers																								
Checking and Filing Returned Forms																								
<b>Phase 4: Data Analysis</b>																								
Staff Training																								
Checking, Editing & Coding Forms																								
Inputting Data to Computer																								
Preparing Data Tables																								
Data Analysis, etc.																								
Drawing Conclusions from Data																								
<b>Phase 5: Report Preparation</b>																								
Planning the Report																								
Drafting the Report																								
Discussing and Finalizing the Report																								
Organizing Seminars, etc.																								



**SMDI Consultants, Inc.**

Suite 1001, 10F, Aguinid Bldg.  
Emerald Ave., Ortigas Center  
Pasig City, Metro Manila 1600  
Tel Nos.: 634 6973, 633-9332  
Telex: 631-1617

14 October 1996

**MR. KAZUHIRO NAKAISHI**  
Section Chief of Engineering Dept. II  
Environmental Technology Consultants Co., Ltd.  
JICA Mission  
Room 1102 Mandarin Hotel

**Subject: Study for the Development of Solid Waste Management**

Dear Nakaishi-san,

Reference is made to your fax-request dated 10 October regarding the survey requirements for the above-stated study.

In this connection, we are pleased to submit our preliminary proposal to conduct the following surveys specified in your proposal:

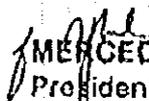
- A. Public Awareness
- B. Capacity of Local Government Unit
- C. Time & Motion Study for Collection and Transportation
- D. Topographic/Relocation Survey
- E. EIA of Landfill Site

**PLEASE NOTE THAT THE ATTACHED COST ESTIMATES ARE EXCLUSIVE OF TAXES AND ARE PURELY BASED ON OUR UNDERSTANDING OF THE INFORMATION YOU HAVE GIVEN US.** This means that we will refine/finalize our financial proposal after we discuss the details of each activity with you, Mr. Kanle and/or Mr. Ikeda.

Please do not hesitate to call me if you have any questions.

Very truly yours,

SMDI Consultants, Inc.  
By:

  
**MERCEDES V. TUAZON**  
President

**A. Public Awareness Survey:**

1. Professional Fees: 1.5 mos. for Survey Analyst/Supervisor/Processors/Encoders	210,000.00
2. Survey: (300 questionnaires)	100,000.00
3. Reimbursables: (office supplies, transportation reproduction, etc.)	82,000.00
4. Contingencies	112,800.00
<b>TOTAL PER COMMUNITY</b>	<b>484,800.00</b>

**B. Time and Motion Study:**

1. Professional Fees: (1.5 mos. for Transport Specialist and Research Engineers)	270,000.00
2. Travel Time Survey	150,000.00
3. Reimbursables	100,000.00
4. Contingencies	158,000.00
<b>TOTAL PER COMMUNITY</b>	<b>678,000.00</b>

**C. Capacity of LGUs:**

1. Professional Fees: (1.5 mos. for Financial Analyst and Researcher)	195,000.00
2. Survey on LGU Operations	100,000.00
3. Reimbursables	118,000.00
4. Contingencies	123,000.00
<b>TOTAL LGU</b>	<b>536,000.00</b>

**D. Relocation and Topographic Survey:**

1. Scope of Work	
1.1 Relocation Survey:	
a) Established a horizontal control along the perimeter	
b) Determine the location of the proposed landfill site	
c) Monumenting the boundary corners.	
1.2 Topographic Survey:	
a) Run a vertical control to the site and establish a permanent bench mark on the site	
b) Lay out on the ground the base line and the grid line 100 m by 100m.	
c) Determine the elevation of the grid line intersection	
d) A creek survey and water bodies shall be made if there is any	
1.3 Profile Survey:	
A profile survey at every 100 m along the base line shall be made.	
1.4 Preparation of Plans:	
a) Location plan shall be prepared on the standard DENR Land Management Bureau Form.	
b) Topographic plan showing the grid line and the elevation on each intersection at scale 1:1000 M.	
c) A contour map shall be prepared at 1.0 meter interval.	
2. Cost of Services	5,000.00
For all the work stated in the scope of work shall be paid on a per hectare.	

**E. EIA of A Landfill Site:**

1. Professional Fees: (4.0 man-months of an Environmentalist 3.5 man-months of a Hydrologist/Geologist/Transport Specialist/Equipment Specialist/Inst'l. Specialist/ Sociologist/Public Health Specialist Researcher)	300,000.00
2. Surveys:	502,500.00
3. Reimbursables:	250,000.00
4. Contingencies:	315,760.00

**TOTAL LANDFILL SITE**

**1,841,900.00**

## I FORMULATION OF MASTER PLAN

POSITION	BILLING RATE / m-m
Sr. Environmentalist	P 150,000.00
Solid Waste Management Expert	150,000.00
Industrial and Medical Waste Management Expert	150,000.00
Water Quality Expert / Chemical Engineer	100,000.00
Sociologist	100,000.00
Economist	100,000.00
Financial Analyst	100,000.00
Institutional Expert	150,000.00
Public Awareness Specialist	100,000.00
Environmental Lawyer	200,000.00
Urban Planner / Land Use Specialist	108,000.00
Geologist / Hydrogeologist	108,000.00
Traffic / Road Engineer	100,000.00
Geodetic Engineer	100,000.00
Operation and Maintenance Specialist	100,000.00
Cost Engineer	100,000.00
Civil / Sanitary Engineer	100,000.00

## II CONDUCT OF FEASIBILITY STUDY

POSITION	BILLING RATE /m-m
Sr. Environmentalist	P 150,000.00
Solid Waste Management Expert	150,000.00
Sociologist	100,000.00
Economist	100,000.00
Financial Analyst	100,000.00
Institutional Expert	150,000.00
Estuarine Ecologist	200,000.00
Terrestrial Ecologist	200,000.00
Meteorologist / Noise / Air Specialist	150,000.00
Risk Assessment Specialist	200,000.00
Operation and Maintenance Specialist	100,000.00
Electro-Mechanical Engineer	100,000.00
Structural Engineer	100,000.00
Cost Engineer	100,000.00
Civil / Sanitary Engineer	100,000.00
Public Awareness Expert	100,000.00

## III. SUPPORT STAFF ( For I and II)

Research Engineer	45,000.00
CAD Operator	24,000.00
Encoder / Tabulator	19,200.00
Draftsman	19,200.00
Driver	12,000.00
Enumerators	12,000.00

## UNIT COST

o Topographic Survey	P	3,500.00	/ Ha
o Boundary Survey		2,000.00	/ Ha
o Water Quality Test		2,500.00	/ Sample
o Leachate Sampling/Analysis		5,000.00	/ Sample
o Geological Survey			

- Mobilization / Demobilization (LS)	P	40,000.00	
- Boring, 3"Ø x 40 m deep		950.00	/ m
- Standard Penetration Test		450.00	/ m
- Undisturbed Sampling		875.00	/ m
- Core Sampling including Core boxes		2,070.00	/ m
- Mechanics test		2,100.00	/ sample
- Physical test		950.00	/ sample

### 3. 民間分析ラボ

社 名 : SGS Philippine Testing and Control Services Inc.

住 所 : Don Tim Building 5468 So. Superhighway, Makati

P.O.Box 2174, MCPO 1261 Metro Manila, Philippines

電話番号 : 817-6231 (35)

FAX番号 : (00632) 8182971 ; 8150952

4. SWMに係るNGOリスト

**LIST OF SOME NGO'S WORKING ON SOLID WASTE MANAGEMENT**

**1. International Resource Recovery and Recycling Network Foundation, Incorporated (IRRREN)**

Dr. Emma A. Pujalte, MNSA  
Founding President/Chief Executive Director  
Triple R Management Center  
117 Soliven Avenue Corner Copenhagen Street  
Pasig Green Park Village 1612  
Manggahan, Pasig City  
Tel. No. 645-0054 Fax. No. 645-8896

**2. Recycling Movement of the Philippines (RMP)**

Ms. Luz Sabas  
Executive Director  
Ecology Center, Quezon City  
Tel. Nos. 922-03-80; 922-2942; 99-88-95; 99-86-35

**3. Center for Advanced Philippine Studies (CAPS)**

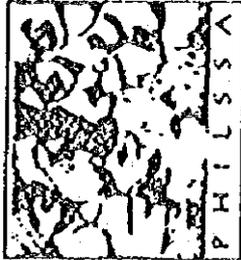
Danila G. Lapid  
Executive Director  
Rm. 8 Maya Building,, 678 EDSA, Cubao  
Quezon City, 1109  
Tel. No. (632) 912-3608  
Fax No. (632) 912-3479

**4. Metro Manila Linis Ganda, Inc.**

Ms. Narda Camacho  
Vice President  
123 B. N. Domingo St.  
Quezon City

**5. Public Education and Awareness Campaign for the Environment (PEACE)**

Dr. Angelina P. Galang  
Coordinator  
Miriam College  
Quezon City



**PARTNERSHIP OF PHILIPPINE  
SUPPORT SERVICE AGENCIES**

NGO Resource Center  
S/J: Joseph Cardinal Höffner  
Social Training Center  
Social Development Complex  
Ateneo de Manila University campus  
Loyola Heights, 1108 Quezon City  
P h i l i p p i n e s  
Tels. 924-4532 / 924-4001 to 20  
loc. 2835 to 36

**CARMEL "Melay" V. ABAO**

*Program Coordinator  
Private Environmental Development Program*

*Greenline*

**Rene B. Trinidad**  
Business Development Manager

**GREENLINE ENVIROTECH PHILIPPINES INC.**

1901B West Tower, Philippine Stock Exchange Centre,  
Exchange Road, Pasig City, Metro Manila, Philippines.  
Tel: (632) 631-1664-68/631-1597 Fax: (632) 631-1593

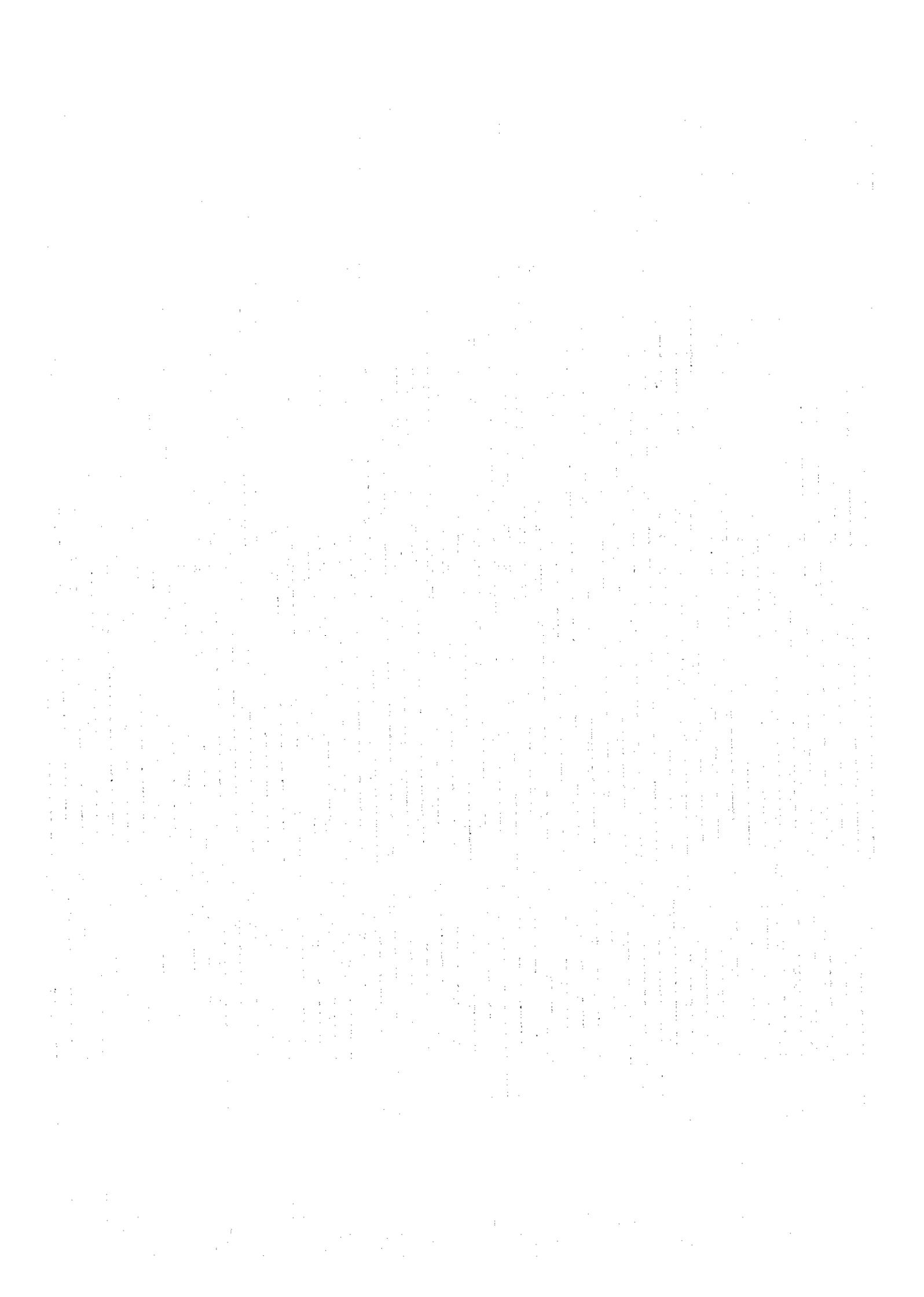


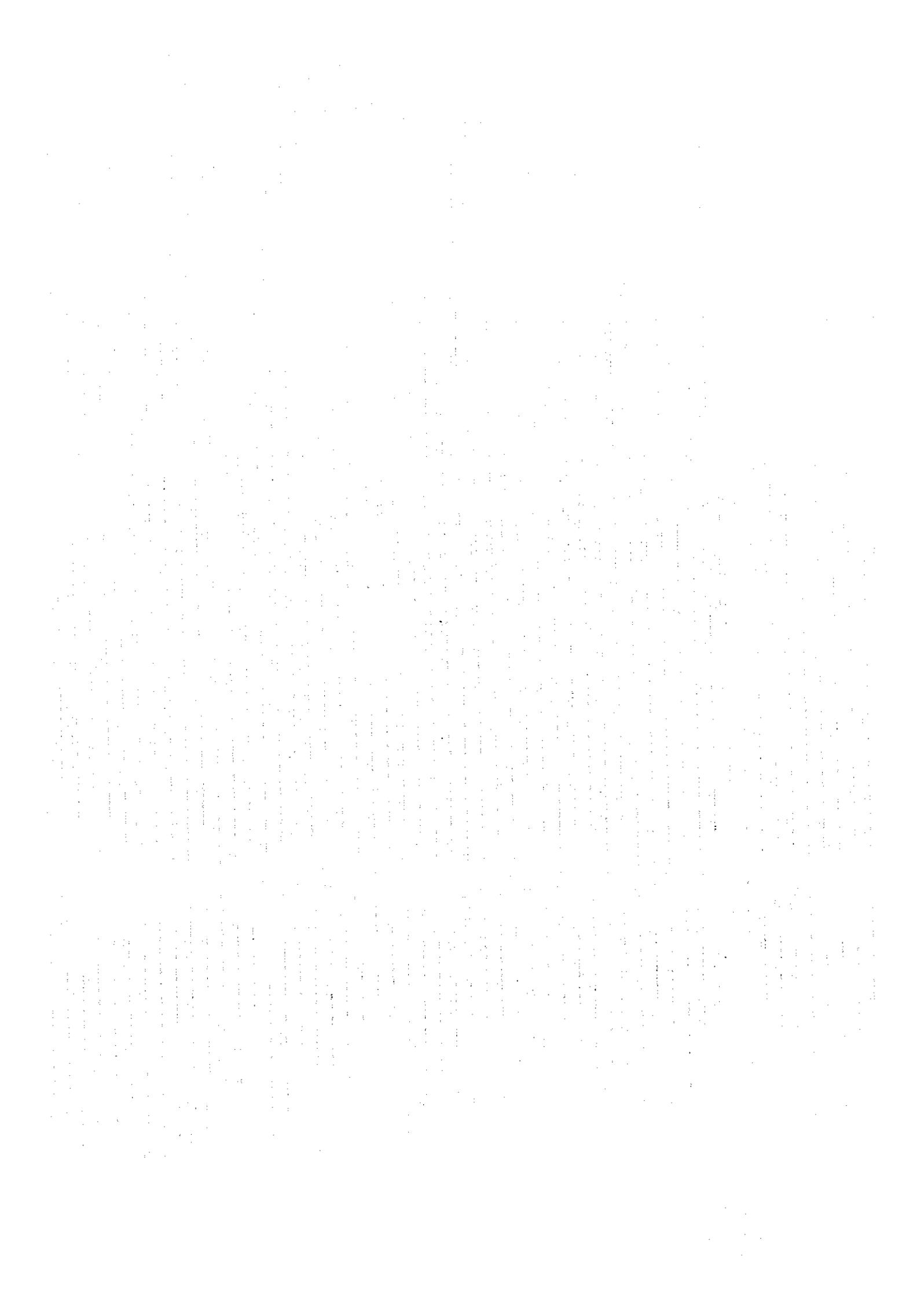
**MARIO R. LEGASPI**  
Special Assistant for Project  
Development and Foreign Assistance

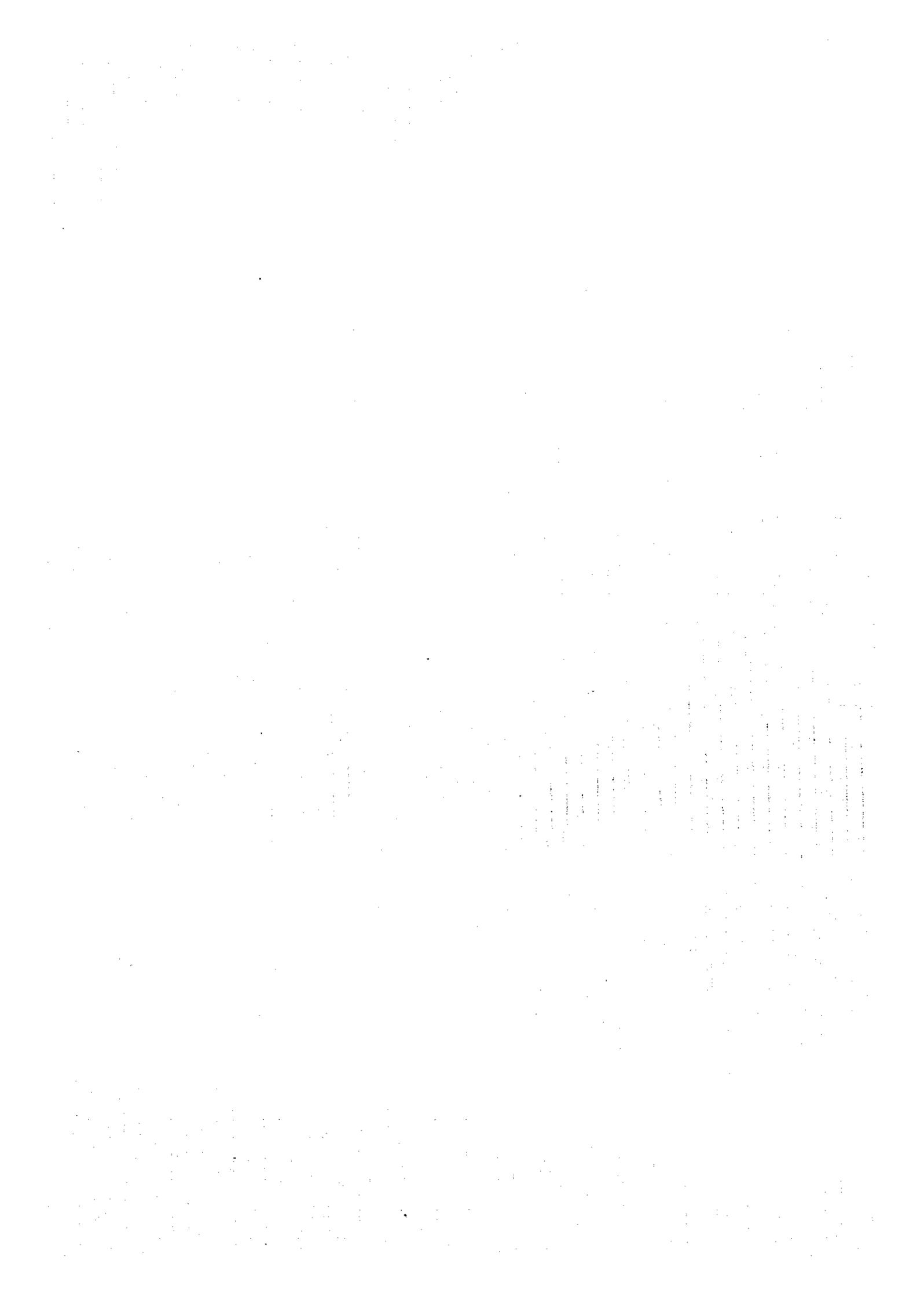
**T E S D A**

**TECHNICAL EDUCATION AND SKILLS  
DEVELOPMENT AUTHORITY**

East Service Road, South Cebu, Cebu







JICA