

28-AUG-2003 08:08

P. 01



Republic of the Philippines
 Department of Environment and Natural Resources
 Visayas Avenue, Diliman, Quezon City
 Tel Nos. (632) 929-66-26 to 29 • (632) 929-62-52
 929-66-20 • 929-66-33 to 35
 929-70-41 to 43

22 August 2003

MS. PRATIBHA MEHTA
 Resident Representative a.i.
 United Nations Development Programme
 NEDA sa Makati Bldg.
 Amorsolo St., Legaspi Village
 Makati City

UNDP MANILA	
FILE NO.	PH 100 / 641
AUG 28 2003	
ACTION	INFO
TM	RR a.i.

Subject: Philippine Efficient Lighting Market
 Transportation (PELMAT) Project

Dear Ms. Mehta:

The Government of the Philippines supports the "Philippine Efficient Lighting Market Transportation (PELMAT) Project" which is a result of the UNDP-GEF PDF B assistance provided to the GOP, through the Department of Energy sometime in 2001. This full project aims to address the barriers to widespread utilization and commercialization of energy efficient lighting systems in the country, through the promotion and utilization of energy efficient lighting systems, which will eventually reduce greenhouse gas (GHG) emissions. Hence, we are endorsing the PELMAT to the UNDP for GEF funding.

We look forward to your usual support to our endeavors in improving environmental management.

Best regards.

Very truly yours,


 RAFAEL E. CAMAT, JR.
 Assistant Secretary & GEF Operational
 Focal Point



2002 OFFICERS

AUGUSTO C. SOLIMAN
President

ALICE B. HERRERA, Ph.D.
Vice-President, Internal Affairs

14 July 2003

ERNESTO J. CASIS
Vice-President, External Affairs

MS. RAQUEL S. HULIGANGA
Director
Energy Research & Testing Laboratory Services
Department of Energy
Merritt Road, Fort Bonifacio
Taguig, Metro Manila

NOEL N. VERDOTE
Secretary

ALEJANDRO B. SARMIENTO
Treasurer

NAPOLEON P. PACIENTE
Auditor

OLEGARIO S. SERAFICA
Public Relations Officer

RAYMUNDO R. RAFOLS, Jr.
Director

VALENTINO L. AVENDAÑO
Director

PAST PRESIDENTS

Raymundo R. Rafols, Jr.
Ernesto J. Casis
Tomas M. Rizo, Jr.
Katrina V. Ignacio
Jesus M. Redelosa
Rodrigo M. Calaguas
Roger S. Amper
Greg S. Gonzales, Jr.
Alberto T. Abaya

ADVISERS


Benjamin P. Lim
Romeo P. Perlado
Jose A. Hilario
Antonio P. Arrobio

Dear Ms. Huliganga:

This is to confirm that the **Energy Management Association of the Philippines (ENMAP)** is committing twenty thousand US dollars (US\$ 20,000) to support the Information, Education and Communication activities (particularly, the conduct of energy efficiency training courses, including lighting) of the Philippine Efficient Lighting Market Transformation Project over a period of five (5) years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

ENMAP's support to the project is described in detail in the project brief and associated budget. ENMAP assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Very truly yours,


AUGUSTO C. SOLIMAN
President



**Republic of the Philippines
DEPARTMENT OF ENERGY**

24 July 2003

Mr. Manuel Soriano
Regional Coordinator, UNDP-GEF
Climate Change, Asia and the Pacific
UNDP-GEF Regional Services Centre, Asia and the Pacific
UNDP, P.O. Box 12544
50782 Kuala Lumpur, Malaysia

Dear Mr. Soriano:

This is to confirm that the Department of Energy (DOE) is committing a minimum of \$4.3M over a period of five years, in kind, in the form of goods, supplies and materials to be used and services to be rendered in connection with our activities as the executing agency of the Philippine Efficient Lighting Market Transformation Project.

Our commitment also includes the aligned activities of the Energy Research and Testing Laboratory Services through its Lighting and Appliance Testing Laboratory, the Energy Utilization Management Bureau through its Energy Efficiency Division and the Consumer Welfare and Protection Office.

The DOE assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Very truly yours,

A handwritten signature in black ink, appearing to read "J. V. Emmanuel A. De Dios".

J. V. Emmanuel A. De Dios
Undersecretary



6/24/03
reBrounted to rrr, 001.

Lim of BPS faxed

this Noel Soriano
of UNDP

19 June 2003

Mr. Manuel Soriano

Regional Coordinator UNDP - GEF

Climate Change, Asia and the Pacific

UNDP-GEF Regional Services Centre, Asia and the Pacific

UNDP, P. O. Box. 12544

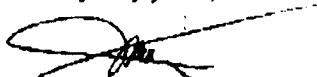
50782 Kuala Lumpur, Malaysia

Dear Mr. Soriano:

This is to confirm that Department of Trade and Industry (DTI) - Bureau of Product Standards (BPS) is committing a minimum of \$ 42,167 00, in kind through the conduct of Technical Committee meetings to update Philippine National Standards (PNS) to support activities of the Philippine Efficient Lighting Market Transformation Project (PELMATP) over the period of five years, in conjunction with the commitment of funds to this initiative by GEF and other donors.

The Department of Trade and Industry (DTI) - Bureau of Product Standards (BPS) supports the project as described in detail in the project brief, particularly in updating the Philippine National Standards (PNS) for Energy Efficient Lighting and associated budget. DTI - BPS assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Very truly yours,


JESUS L. MOTOMULL
Director



Development Bank of the Philippines

July 15, 2003

Handwritten: 7/18
Ms. Raquel S. Huliganga
Director
Energy Research and Testing laboratory Services
Department of Energy
Energy Center, Merritt Road, Fort Bonifacio
Taguig, Metro Manila

Subject: **UNDP-GEF Full Project**
"Philippine Efficient Lighting Market Transformation Project"
(PELMATP) Co-financing

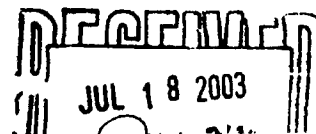
Dear Ms. Huliganga:

This has reference to your letter dated 7 July 2003 requesting confirmation of an available credit facility for energy efficient lighting projects that could be tapped by stakeholders under the above-mentioned subject.

The Development Bank of the Philippines is currently implementing policy-based environmental management programs whose main objectives are to promote the protection and enhancement of the environment and mobilize investments in environment friendly projects. Among these programs are:

- a) The Environmental Infrastructure and Support Credit Program-2nd Phase (EISCP II), with ₱ 8.70 Billion credit facility available for the industrial, mining and service sectors;
- b) Industrial and Support Services Expansion Program 2nd Phase (ISSEP II) with ₱ 15.30 Billion credit facility for small and medium enterprises in the manufacturing sector, computer software, transport, storage and warehousing facilities and education strongly linked to the manufacturing sector; and
- c) The Industrial pollution Control Loan Project – 2nd Phase (IPCLP II) with ₱ 540 Million credit facility for small and medium enterprises in identified priority industrial/manufacturing sectors.

Energy efficiency and/or conservation is one of the priority investment projects eligible for funding under the above stated credit facilities of DBP because it leads to conservation of fossil fuel and reduction of greenhouse gas emissions thereby improving the quality of the environment. Stakeholders under the PELMATP therefore may tap these facilities for their funding requirements, provided they meet credit requirement of the Bank.



DBP is also an active participant to the GEF Efficient Lighting Initiative (ELI) Program for the Philippines in collaboration with the DOE and ELI/Soluziona, Philippines, Inc. Under this collaborative endeavor, DBP-DOE-ELI/Soluziona is developing a Model Energy Service Company (ESCO) Transaction in the DBP Head Office to generate interest in ESCO projects within the commercial, industrial and institutional sectors, thereby improve national energy efficiency and environmental protection.

Considering that PELMATP's objective of achieving energy efficiency in the country through efficient lighting is consistent with the DBP's policies and programs, the Bank extends its full support to PELMATP and offers the EISCP II, ISSEP II and IPCLP II credit facilities to provide financing support to its stakeholders.

We look forward to our working together towards the successful implementation of the PELMATP and achieving national energy efficiency.

Very truly yours,


EUFEMIA C. MENDOZA
Vice President



GlobeCare

SERVICES, INCORPORATED

Address: No. 1 Sheridan Street, Mandaluyong City 1501, Philippines
Telephone: +632 747 7470 / +632 638 8888 Fax: +632 747 7459
E-mail: marketing@globecare.com.ph www.globecareonline.com

July 28, 2003

MS. RAQUEL S. HULIGANGA

Director

Energy Research & Testing Laboratory Services

Department of Energy

Merritt Road, Fort Bonifacio

Taguig, Metro Manila

Dear Ms. Huliganga:

This is to confirm that GlobeCare Services, Incorporated is committing a minimum of \$1,500,000 to support activities of the *Philippine Efficient Lightning Market Transformation Project* over a period of 5 years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

GlobeCare support to the project is described in detail in the project brief and associated budget. GlobeCare assumes that all of this direct cost associated with producing the outputs described in the project brief will qualify as co financing.

Very truly yours,

FRANCIS F. HOW
Managing Director



A member of the CPI Group

July 10, 2003

Energy Research and Testing Laboratory Services
Department of Energy
Merritt Road, Fort Bonifacio
Taguig, Metro Manila

Attention:

Ms. Raquel S. Huliganga
Director

Dear Ms. Huliganga:

This is to confirm that CPI Energy Phils., Inc. (CPIE) is committing a minimum of \$ 300,000 to support activities of the Philippine Efficient Lighting Market Transformation Project over a period of 5 years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

CPIE's support to the project is described in detail in the project brief and associated budget. CPIE assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Very Truly yours,

Raymond A. Marquez
General Manager
Engineering Services Department

Philippine Efficient Lighting Market Transformation Project**CPI Energy Phils., Inc.****Project Brief**

- **Food Manufacturing**

Project Cost is estimated at Php 3.4 Million. We will replace around 5,000 lamps and 2,500 ballasts. It operates 10 hours per day from Monday to Friday, 300 days per year. The opportunity to improve the building's lighting system was identified during an energy audit conducted by CPI Energy Phils., Inc. (CPIE).

Their indoor lighting system consists of 2x40 watt Fluorescent Lamps (FL) and rapid start magnetic ballasts. The light level at the area under these lamps was measured at approximately 197 luxes.

- **Semicon 1**

Project Cost is estimated at Php 3.5 Million. We will replace around 5,000 lamps and 2,500 ballasts. It operates 24 hours per day from Monday to Sunday, 360 days per year. The opportunity to improve the building's lighting system was identified during an energy audit conducted by CPI Energy Phils., Inc. (CPIE).

Their indoor lighting system consists of 1x40 watt, 2x40 watt, and 2x40 watt Fluorescent Lamps (FL) and rapid start magnetic ballasts.

- **Semicon 2**

Project Cost is estimated at Php 7.6 Million. We will replace around 10,000 lamps and 5,000 ballasts. It operates 24 hours per day from Monday to Sunday, 360 days per year. The opportunity to improve the building's lighting system was identified during an energy audit conducted by CPI Energy Phils., Inc. (CPIE).

Their indoor lighting system consists of 2x40 watt Fluorescent Lamps (FL) and rapid start magnetic ballasts.

- **Semicon 3**

Project Cost is estimated at Php 1.8 Million. We will replace around 2,400 lamps and 1,200 ballasts. It operates 16 hours per day from Monday to Friday, 200 days per year. The opportunity to improve the building's lighting system was identified during an energy audit conducted by CPI Energy Phils., Inc. (CPIE).

Their indoor lighting system consists of 2x36 watt Fluorescent Lamps (FL) and rapid start magnetic ballasts.

- **Hotel**

Project Cost is estimated at Php 0.2 Million. We will replace around 200 lamps and 100 ballasts. It operates 24 hours per day from Monday to Sunday, 365 days per year. The opportunity to improve the building's lighting system was identified during an energy audit conducted by CPI Energy Phils., Inc. (CPIE).

Their indoor lighting system consists of 2x40 watt Fluorescent Lamps (FL) and rapid start magnetic ballasts.

Activities as an ESCO (Related to Lighting Retrofit)

- Marketing/ Presentation to clients and to professional organizations like IIFE, ENMAP etc.
- Arrange meetings/ discussions with clients and get a general data through "walk-through" audit. Obtain inventory of lamps and ballasts.
- Perform an actual demonstration of efficient lighting at site to verify savings
- Analyze data and make recommendations based on the efficient lighting demonstration results
- Project Implementation
- Maintenance during the cooperation period

fumaco inc.

35 Pleasant View Drive
Bagbaguin, Valenzuela City
Metro Manila, Philippines
Tel (632) 983 2117-21
Fax (632) 983 1348
E-mail sales@fumaco.com

July 23, 2003

Ms. Raquel S. Huliganga
Director
Energy Research and Testing Laboratory Services
Department of Energy
Merritt Road, Fort Bonifacio
Taguig, Metro Manila

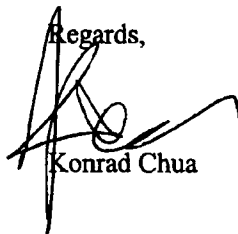
**RE: Letter of Commitment to the Philippine Efficient Lighting
Market Transformation Project**

Dear Ms. Huliganga:

This is to confirm that **FUMACO Inc** is committing a minimum of **P3,500,000.00 (Three Million Five Hundred Thousand Pesos)** to support activities of the **Philippine Efficient Lighting Market Transformation Project** over a period of **5 years**, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

FUMACO Inc.'s support to the project is described in detail in the project brief and associated budget. **FUMACO Inc** assumes all of its direct costs associated with producing outputs described in the project brief will qualify as co-financing.

Regards,



Konrad Chua

FUMACO INC. - Philippine Efficient Lighting Market Transformation Project

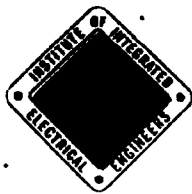
- 1 of 2 -

Sales Office:
2002-C West Tower, Philippine Stock Exchange, Exchange Road, Pasig City, Philippines
Tel (632) 638 8272-75 Fax (632) 638 8271

Showroom:
18-21 VMCC Building, Granada St., Quezon City, Philippines

Breakdown of the Commitment of P3,500,000.00 (Three Million Five Hundred Thousand Pesos Over 5 Years)

Component	Amount
Research and Development of New Products	
Included in this component is the development of Lighting Luminaires supporting T5 Lamps and Components and other Lighting Systems, that are more efficient compared to the popular T8/T12 Lighting System.	
Manpower (P60,000.00 x 5 Years)	P 300,000.00
Materials For Prototyping (P30,000.00 x 5 Years)	P 150,000.00
Marketing and Promotion of New Products (P50,000.00 x 5 Years)	P 250,000.00
Moulds, Equipment, and Machinery	P 400,000.00
Sales and Staff Training	
Sales staff and Customer Service Staff shall be trained to promote efficient lighting systems to customers, further enhancing the awareness of consumers. (P80,000.00 x 5 Years)	P 400,000.00
Showroom / Showcase	
Display and Showcase of Efficient Lighting Designs and Efficient Lighting Systems	P 350,000.00
IEEE Sponsorships	
Sponsorships for Various Regional Conferences and Product Presentations (P30,000.00 x 5 Years)	P 150,000.00
ISO 9001:2000 Certification and PS Mark Certification Costs associated with acquiring certification, consultancy, and training. Also included are costs related to the acquisition of equipment necessary for PS Mark Certification.	P 1,200,000.00
ISO 9001:2000 and PS Mark Surveillance Audit (P60,000.00 x 5 Years)\	P 300,000.00
TOTAL	P 3,500,000.00



INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES, INCORPORATED



Accredited National Organization, Certificate No. I-APO-02 Professional Regulation Commission

IIEE National Headquarters, 41 Monte de Piedad St., Cubao, Quezon City, Metro Manila
Tel. Nos. (632) 722-7383, 727-3552, 727-3558, 414-5626 Fax No. (632) 727-3545
E-mail: iiee@skynet.net

2003 NBS2003Ltr#73-PELMATP2

NATIONAL OFFICERS:

MIGUEL H. LAGMAN
President

8 August 2003

RODOLFO N. FERRER
VP-Internal Affairs

MS. RAQUEL S. HULIGANGA

Director

JEROME E. ALCANTARA
VP-External Affairs

Energy Research & Testing Laboratory Services

Department of Energy

VIRGILIO C. FLORDELIZA
VP-Technical Affairs

Merritt Road, Fort Bonifacio

Taguig, Metro Manila

LEO S. CABASAG
Secretary

Dear Ms. Huliganga:

LUZITA M. BACCOL
Treasurer

RAYMOND A. MARQUEZ
Auditor

This is to confirm that INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES, INC. (IIEE) is committing a minimum of PhP14,000,000.00 to support activities of the *Philippine Efficient Lighting Market Transformation Project* over a period of five (5) years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

REGIONAL GOVERNORS:

JOSELITO D. CAMACHO
Region I

AMADO R. NATIVIDAD
Region II

MOISES G. FULE
Region IV

IIEE's support to the project is described in detail in the project brief and associated budget. IIEE assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Very truly yours,

DENNIS MISAEL D. DELGADO
Region V

VAL LUIS J. TALLADOR
Region VI

DOMINICO A. AMORA
Region VII

REMEGIO B. GONZALES
Region VIII

HENRY L. CASPILLO
Region IX

FRANCIS V. MAPILE
Immediate Former President

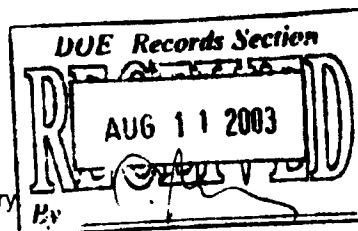
LLORIE B. TIMBOL
Executive Secretary


MIGUEL H. LAGMAN
National President

Cc: Ms. Mirna R. Campaño
Chief, Fuels & Appliance Testing Laboratory
Department of Energy
PNOC-ERDC Cpd., Commonwealth Avenue
Diliman, Quezon City

RNF, IIEE VP-Internal
VCF, IIEE-VP-Technical

UNDP MANILA	
FILE NO. <u>PM/00/641</u>	
AUG 13 2003	
ACTION	IN
IN/MF	RA q.c.



PROJECT BRIEF

After the successful launching of the Manual of Practice on Efficient Lighting last November 2002, Philippine Lighting Industry Association (PLIA) in cooperation with Institute of Integrated Electrical Engineers of the Philippines, Inc. (IIEE) and Efficient Lighting Initiative (ELI), announces the series of seminars, which will use the manual as a textbook for practical application of the information found in the manual. Noted speakers from the Asia Pacific Region will be the instructors for the classroom portion of the seminars. Included in the seminar will be a workshop, where attendees will be given the chance to do an actual efficient lighting design using state of the art lighting software on computers to be provided by at least four lighting manufacturers. Electrical Engineers, Architects, Interior Designers, or anyone working with lighting or interested in efficient lighting and state of the art lighting products should attend these seminars.

The programs will be conducted at the IIEE National Office located at 41 Monte de Piedad Street, Cubao, Quezon City.

**BUDGET ON THE CONDUCT OF EFFICIENT LIGHTING SEMINAR
FOR THE PERIOD of FIVE (5) YEARS**

Invitation (includes brochures, postages, supplies) 15,000 pcs x P82.00 x 5 years	6,150,000.00
Meals (Lunch, AM & PM snacks): (45 pax @ P350.00 x 12 months x 5 years) x 2 days	1,890,000.00
Handouts (40 pax @ P600.00) x 12 months x 5 years	1,440,000.00
Speaker: Local (16 hours x P1,100 x 12 months x 5 years)	1,056,000.00
Foreign (inclusive of honorarium, plane fare, hotel accommodation) (PhP140,400.00 x 5 yrs) x 2 per year	1,404,000.00
Staffs salaries (P15,000 x 12 months x 5 years)	900,000.00
Reprinting of ELI Manual (P400,000.00 x 2) for 1,000 copies	800,000.00
Venue (2 days x P2,500.00) x 12 months x 5 years	300,000.00
Certificates (40 pax @ P10) x 12 months x 5 years	24,000.00
Miscellaneous: Memo pads/ballpens (40 pax @ P15.00) x 12 months x 5 years	36,000.00
TOTAL	<u>14,000,000.00</u>



REPUBLIC OF THE PHILIPPINES
CITY OF MALABON
METROPOLITAN MANILA
OFFICE OF THE MAYOR



July 03, 2003

MS. RAQUEL S. HULIGANGA

Director
Energy Research and Testing Laboratory Services
Department of Energy
Meritt Road, Fort Bonifacio
Taguig, Metro Manila

Dear Ms. Huliganga:

This will confirm the City Government of Malabon's support activities to the Philippine Efficient Lighting Market Transformation Project over a period of 5 years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

The City Government of Malabon's support to the project is described in the project brief and associated budget. The City Government of Malabon assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Very truly yours,


AMADO S. VICENCIO
City Mayor

attch: a/s

AGENCY : CITY GOVERNMENT OF MALABON
METRO MANILA

PROJECT BRIEF

NATURE OF PROJECT	NUMBER OF UNITS	TOTAL COST
1. Installed Streetlights	73 lamp posts	P 6,826,000.00
2. Installed Sports Lighting	24	196,800.00
3. Proposed Streetlighting		P 2,100,000.00
Total Costs		P 9,122,800.00

Prepared by:


Engr. BENJAMIN VILLACORTA
Special Project Coordinator



QUANTUM ELECTRONICS CORPORATION

No. 117 Tirad Pass Street , Caloocan City, Metro Manila
Telephone Numbers: (632) 3634075 3634077 3635573
FAX No. (632) 363-8087 e-mail: quantum@email.com.ph

June 17, 2003

MS. RAQUEL S. HULIGANGA

Director

Energy Research & Testing Laboratory Services

Department of Energy

Merritt Road, Fort Bonifacio

Taguig, Metro Manila


Dear Ms. Huliganga:

This is to confirm that **Quantum Electronics Corporation** is committing a minimum of **\$ 121,311.28** to support activities of the **Philippine Efficient Lighting Market Transformation Project** over a period of **Five** years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

Quantum Electronics Corporation support to the project is described in project is described in detail in the project brief and associated budget
Quantum Electronics Corporation assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Enclosed herewith is the Operational Cost for Manufacturing Electronic Ballast.

Very truly yours,


Edgar F. Young
President

Operational Cost for Electronic Ballast Manufacturing

QC Laboratory	Description	Approximate Cost (\$)
Acquisition of Tester	PM100 for product demo application & field testing	3,773.58
Calibration Fees	External calibration for all test equipment	226.41
Electrical Charges	Operating air-con cost for environmental control & lighting	471.69
Maintenance	Annual battery replacement costs and cleaning compound	5.66
Personnel	Trained QC personnel for test equipment operations	1,811.32
	Total:	6,288.66

R & D	Description	Approximate Cost (\$)
External Testing fee	External testing fee for prototype electronic ballast	283.01
Retainer for Tech.	Funding for technical assistant in R & D work @ 6500/mo.	1,471.69
Parts for R & D	Purchase of local & imported components for product R & D	471.69
Evaluation Test	Internal testing cost using test racks & switching machine	150.94
Samples	Purchase of imported samples for research & development	471.69
Traveling Abroad	Attending Trade Shows abroad	18,867.92
	Total:	21,716.94

Promotions	Description	Approximate Cost (\$)
Exhibits	Ballast exhibits in IEEE Annual convention & SM	1,320.75
Yellow page	Ballast ads for PLDT yellow page	2,075.47
Publication	Ads for Magazines	188.67
Catalogs	Publication of Ballast product brochures	528.30
Product Demo	Field & House product seminar on ballast products	377.35
	Total:	4,490.54

Standardization	Description	Approximate Cost (\$)
ISO9002 Alignment	Paper, new printer, printer inks, external references	943.39
	External consultant for ISO900 auditors	2,830.18
	Quality Manual assessment fee	94.33
	Audit Fee by DTI-NCR	294.33
License fee	PS License No./s Q-0476	188.67
	Total:	4,350.94

Manufacturing Cost	* Description based on 5000 units	Approximate Cost (\$)
Raw Materials	Local procurement of ballast components – wires, casing,	6,603.77
	Labels, soldering lead, corrugated boxes, tapes, etc.	
	Indent of imported ballast components – PCB modules,	40,000.00
	Subcontracted parts, coils, terminal blocks, heat sinks, etc.	
Assembly Cost	Labor component for the assembly of electronic ballast	14,716.98
Electrical	Operating expenses for machines & lights	2,830.18
	Total:	64,150.93

Machineries	For ballast manufacturing	Approximate Cost (\$)
Local	Solder pot, cutter, manual strippers, strapping machine, etc.	8,812.81
Imported	Solder wave, PCB cutter, winder, wire stripper, electric driver	11,500.46
	Total:	20,313.27

SUMMARY		Percentage
QC Laboratory	6,288.66	14%
R & D	21,716.94	24%
Promotions	4,490.54	10%
Standardization	4,350.94	5%
Manufacturing Cost	64,150.93	28%
Machineries	20,313.27	19%
Total:	\$ 121,311.28	100%



**NATIONAL
ENGINEERING
CENTER**

University of the Philippines

NEC Building, U.P. campus, Diliman, Quezon City, Philippines 1101

Direct Line: 926-15-16, 927-83-45, 927-90-39, Trunk Line: 920-5301 to 920-5399 locs. 5283, 5101, 5870, 5247, 5273

Fax No.: 922-47-14, 929-17-10

08 August 2003

MS. RAQUEL S. HULIGANGA

Director

Energy Research & Testing Laboratory Services

Department of Energy

Merritt Road, Fort Bonifacio

Taguig, Metro Manila

Dear Ms. Huliganga:

This is to confirm that College of Engineering (COE) and National Engineering Center (UP-NEC) of the University of the Philippines are committing a minimum of **\$70,000 (in kind)** to support activities of the *Philippine Efficient Lighting Market Transformation Project* over a period of five (5) years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

COE and UP-NEC's support to the project is described in detail in the project brief and associated budget. COE and UP-NEC assume that all of their direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Very truly yours,



HERMAN D. MENDOZA
Deputy Executive Director

Attachment:

Details of COE -UPNEC Commitment

Commitment(IN -KIND):	Amount (\$)	Time (yrs)
Software and Hardware Facilities Utilization	25,000	5
Training and Workshop (Professional Enhancement and Continuing Engineering Education)	20,000	5
Research and Development	25,000	5
TOTAL	70,000	

Prepared by:


Herman D. Mendoza

LETTER OF COMMITMENT FOR PELMATP

August 6, 2003

UNDP MANILA	
FILE NO.	PH-1/00/641
SEP - 7 2003	
ACTION	INFO
	1M/1220

MS. RAQUEL S. HULIGANGA
Director
Energy Research & Technology Laboratory Services
Department of Energy
Merritt Road , Fort Bonifacio
Taguig, Metro Manila

Dear Ms. Huliganga :

This is to confirm that the City Government of Valenzuela is committing a minimum of Ph. 2,082,668.70 to support the activities of the **Philippine Efficient Lighting Market Transformation Project** over a period of five years , in conjunction with the commitment of funds to this initiative by the GEF and other donors. Please see Attachment 1 for details.

The City Government of Valenzuela's support to the project is described in detail in the Project brief and its associated budget. We assume that all of our direct cost associated with producing the outputs described in the project brief will qualify as co-financing .

Very truly yours ,


Hon. JOSE EMMANUEL L. CARLOS MD.
City Mayor



August 15, 2003

Ms. Raquel S. Huligangna, Director
Energy Research and Testing Laboratory Services
Department of Energy
Merritt Road, Fort Bonifacio
Taguig, Metro Manila

Dear Director Huligangna:

SUBJECT: PLIA LETTER OF COMMITMENT

UNDP MANILA	
FILE NO.	170/00/241
SEP - 2 2003	
ACTION	INFO
1 Mr / R R a	

This is to confirm that the Philippine Lighting Industry Association, Inc. (PLIA) is committing a minimum of \$1.5 million to support activities of the Philippine Efficient Lighting Market Transformation project over a period of five years, in conjunction with the commitment of funds to this initiative by the GEF and other donors.

PLIA's support to the project is described in detail in the project brief and associated budget. PLIA assumes that all of its direct costs associated with producing the outputs described in the project brief will qualify as co-financing.

Sincerely,

Stephen G. Cu
President
Philippine Lighting Industry Association, Inc.

