

06 November 1991

SPECIAL ORDER NO. 1045 SERIES OF 1991

SUBJECT: WORKSHOP ON ENVIRONMENTAL MONITORING AND RESEARCH ACTIVITIES FOR THE POLLUTION ADJUDICATION BOARD

In the interest of the service, the following personnel of DENR-Regional Office are hereby designated to attend the Workshop on Environmental Monitoring and Research Activities for the Pollution Adjudication Board to be held on 20-23 November, 1991 at BMGS, Petrolab, North Avenue, Quezon City.

1. Engr. Narciso Zacarias 2. Engr. Jean Borromeo 3. Engr. Fermin Weygan 4. Engr. Bernardita Lopez 5. Engr. Joel Salvador 6. Engr. Ma. Dorica Naz 7. Mr. Lorenzo Azaula 8. Engr. Ma. Garcia Mariano 9. Engr. Dominice Balerite 10. Ms. Doreen Gamboa 11. Engr. Oscar Temporal 12. Ms. Lilibeth Candolita 13. Engr. Eva Ocfemia 14. Ms. Leonisa Madeloso 15. Engr. Samson Guillergan 16. Ms. Nena Gerado 17. Engr. Allan Arranguez 18. Ms. Ester Gupiteo 19. Engr. Carlos Panaligan 20. Engr. Ma. Corazon Millan 21. Engr. Allan de Gala 22. Ms. Arleen Munoz 23. Engr. Florencio Dominguez Jr. 24. Ms. Marivic Fajardo 25. Engr. Bienvenido Lipayon 26. Ms. Florencia Bongalo 27. Ms. Ma. Socorro Lanto 28. Engr. Mulilodah Pasandalan	Chief, EQD Chief, Lab. Chief, EQD Supvng. EMS Chief, EQD Sr. EMS Chief, EQD EMS II Chief, EQD OIC, Lab. Chief, EQD Chief, EQD Chief, EQD Chief, EQD Sr. EMS Chief, EQD Sr. EMS Chief, EQD Chief, EQD Chief, EQD Chief, EQD Sr. EMS Chief, EQD Sr. EMS Chief, EQD EMS I Chief, EQD EMS II Chief, EQD EMS II Chief, EQD	Reg. 6 Reg. 7 Reg. 7 Reg. 8 Reg. 8 Reg. 9 Reg. 9 Reg. 10 Reg. 10 Reg. 11
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In addition, the following personnel of EMB are also authorized to attend the said workshop as participants and facilitators:

1. Ms.	E1	l a	S.	Deocadiz
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2. Fiscal Oscar A. Pascua

3. Atty. Carmelo R. Segui

4. Atty. Evelyn Dominguez

5. Engr. Erlinda A. Gonzales

6. Engr. Esterlito M. Pinlac

7. Engr. Ramon B. Aguilar

8. Ms. Angelita T. Brabante

9. Ms. Amy M. Lecciones

10. Mr. Albert A. Magalang

11. Ms. Teresita M. Liao

12. Ms. Leonita Baetiong

13. Mr. Reynaldo P. Alcances

14. Mr. Renato T. Cruz

15. Ms. Clarissa C. Arida

16. Ms. Araceli V. Cantre

17. Mr. Manuel S. Sabater

18. Mr. Salvador T. Passe

19. Engr. Jose Reynato M. Morente

20. Ms. Virginia V. Quimio

21. Ms. Sonia R. Barlis

OIC, Asst. Director

OIC, Legal

Atty. III

PAB Coordinator

Chief, EQD

Chief, WQMS

Chief, AQMS

Chief, STHWMS

Supvg. EMS

Supvg. EMS

Inf. Officer

Supvg. EMS

Chief, EMS

Supvg. EMS

Sr. SRS

Sr. EMS

_ _ _ _ _

Sr. SRS

Supvg. EMS

SRS II

Sr. EMS

Statistician II

All expenses incurred in connection with the workshop shall be charged against PAB funds and shall be subject to the usual accounting and auditing rules and regulations.

FULGENCIO S. FACTORAN, JR. Secretary

Recommending Aproval:

VICTOR O. RAMOS

USEC, for Field Operations

DELFIN GANAPIN, JR.

USEC, for Environment and Research

Visayas Avenue, Diliman, Quezon City

Rev 3: 6 November 1991

WORKSHOP ON ENVIRONMENTAL MONITORING AND RESEARCH ACTIVITIES FOR THE POLLUTION ADJUDICATION BOARD

Quezon City, 20-22 November 1991

Workshop Venue: Petrolab, North Avenue, Q.C.

Participants Accommodations: PCED Hostel, UP Campus, Q.C.

PROVISIONAL WORKSHOP TOPICS

- 1. Introduction: purpose and scope of the workshop
- 2. Approval of the provisional workshop topics and designation of working groups

Environmental Monitoring

- 3. Presentation of the environmental monitoring framework of the DENR: rationale for environmental monitoring, areas to be monitored, industries/activities to be monitored, parameters, frequency of monitoring, quality assurance procedures, coordination with local and international groups, data storage, retrieval, and reporting
- 4. Presentation and review of DENR capability for environmental monitoring: staff, equipment, supplies and materials
- 5. Identification of gaps and formulation of framework plan to include training plan for environmental monitoring

Environmental Research

- 6. Presentation of DENR environmental research framework
- 7. Review of DENR environmental research activities and capability
- 8. Formulation of framework plan for environmental research; discussion of procedures for the conduct of interlaboratory exercises

Integrative Aspects

- 9. Finalization of framework plans
- 10. Adoption of the report

INPUTS REQUESTED FROM PAB

Substantive inputs

Problems and issues in the conduct of PAB activities related to environmental monitoring and research

Staff inputs

Technical staff to assist in the preparation of the working documents

Financial inputs

₽	52,498.00
	35,444.00
	10,000.00
	20,000.00
_	117,942.00
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INPUTS FROM EMB

Substantive Inputs

Overall framework of the workshop
Reporting forms
Existing data and information on regional capability
for environmental monitoring and research
DENR environmental monitoring framework
DENR environmental research framework
Operational guidelines for environmental monitoring
for DENR
Draft protocol on laboratory accreditation

Staff inputs

Technical staff to prepare the working documents and workshop report Support staff to take care of workshop arrangements and provide clerical support

INPUTS FROM PARTICIPANTS

Substantive inputs

Environmental monitoring plan of the Region

- * Rationale of the environmental monitoring plan
- * Coverage of the ideal environmental monitoring plan for the Region in terms of water bodies, industrial establishments, projects under the EIS System, other activities and projects, equipment and facilities, manpower complement, quality assurance exercises, and training
- * Map of water bodies currently monitored Details of current monitoring activities
- * Map of industrial establishments
 Details of current monitoring activities
- * Map of projects under EIS System
 Details of current monitoring activities
- * Other projects/activities that entail monitoring
 - Details of current monitoring activities
- * List of staff (including educational background, training courses attended, and experience) involved in current environmental monitoring activities
- * Map of stationary monitoring stations
 Detailed description (including fixtures, equipment, etc.) of stations, information on how and when these stations were acquired, funding source, cost (itemized into construction, equipment and accessories, and maintenance)
- * List of field equipment (including name of field equipment, brand, model, capability, i.e. parameters analyzed and detection limits, how and when the equipment were acquired, and status, i.e. serviceable/unserviceable/to be condemned/condemned)
- * List of laboratory equipment (including name of equipment, brand, model, capability, i.e. parameters analyzed and detection limits, how and when the equipment were acquired, and status, i.e. serviceable/unserviceable/to be condemned/condemned)
- * List of analytical methodologies in the measurement of parameters)

- * List of quality assurance practices adopted in environmental monitoring, particularly in the analysis of samples
- * Description of equipment maintenance program
- * List of water bodies, industrial establishments, projects under EIS, and other activities/projects to be monitored
- * List of institutions and groups in the Region that have environmental monitoring capability; brief assessment of capability
- * Gaps between ideal and current capability
- * Recommendations
 Priorities relative to manpower training, equipment
 acquisition, and facilities upgrading
 Other recommendations

Environmental research framework of the Region

- * Researchable areas in the Region classified under the following categories:
 - Testing of analytical and research methodologies
 - Establishment of baseline/background data
 - Water quality management
 - Air quality management
 - Land/soil quality management
 - Waste management (including solid, toxic, and hazardous waste)
 - Environmental health
 - Environmental impact assessment
 - Environmental economics
 - Climate change and other global phenomena
- * Research capability of the Regional Office with respect to research topics currently worked on, staff, facilities, and equipment
- * Research capability of other institutions and groups in the Region
- * Recommendations
 Priorities relative to research areas/subjects,
 capability building, and coordination with EMB and
 other groups

Staff inputs

Participants: EQD Chiefs and Laboratory Section Chiefs of the Regional Offices of the DENR

Workshop Output

DENR Environmental Monitoring Framework DENR Environmental Research Framework

TENTATIVE LIST OF PARTICIPANTS

DENR - REGIONAL OFFICES

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1. 2.		Narciso Zacarias Jean Borromeo	Chief, EQD Chief, Lab. Section
		CAR	
1. 2.	Engr. Engr.	Fermin Weygan Brnardita Lopez	Chief, EQD Supvng. EMS
	R	egion 1	
1. 2.		Joel Salvador Ma. Dorica Naz	Chief, EQD Sr. EMS
	R	egion 2	
1. 2.		orenzo Azaula Ma. Gracia Mariano	Chief, EQD EMS II
	R	egion 3	
1. 2.		Dominice Balerite oreen Gamboa	Chief, EQD OIC. Lab. Section
	R	egion 4	
1. 2.	Engr. Engr.	Oscar Temporal Lilibeth Candolita	Chief, EQD OIC, Lab. Section
	R	egion 5	
1. 2.		Eva Ocfemia eonisa Madeloso	Chief, EQD SRS III
	R	egion 6	
		Samson Guillergan ena Gerrado	Chief, EQD Sr. EMS
	R	egion 7	
1. 2.		Allan Arranguez ster Gupiteo	Chief, EQD Sr. SRS

Region 8

Engr. Carlos Panaligan Engr. Ma. Corazon Millan	Chief, EQD Sr. EMS
Region 9	
Engr. Allan de Gala Ms. Arleen Munoz	Chief, EQD SRS II
Region 10	
Engr. Florencio Dominguez, Jr. Ms. Marivic Fajardo	. Chief, EQD EMS II
Region 11	
Engr. Bienvenido Lipayon Engr. Florencio Bungalo	Chief, EQD Sr. EMS
Region 12	
Ms. Ma. Socorro Lanto Engr. Mulilodah Pasandalan	Chief, EQD Sr. EMS

DETAILED BUDGETARY ESTIMATES

I.	TRAVELLING EXPENSES	P 52,498.00
	Fare [Round trip fare for two representatives each region]	52,498.00
II	FOOD AND ACCOMMODATION	35,444.00
	 Dinner at P78.00/person [for 28 Regional Participants checking-in in the evening of 20 Nov. plus 22 EMB Personnel	3,900.00
e.	 Breakfast at P62.00/person/day x 3 days [for the breakfast on Nov 21-23 of the 28 Regional Participants billeted] 	5,208.00
	 Snacks (AM & PM) at P25.00/snack x snacks/day x 2 days (for 50 participants) 	5,000.00
	4. Lunch at P50.00/person/day x 2 days (for 50 participants)	5,000.00
	5. Dinner at P50.00/person/day x 2 days (for 50 participants)	5,000.00

B. Accommodation

1.	Rooms for the Regional Participants P 11,336.00
	8 rooms (triple) at P 408.00 each per night x 3 nights 9,792.00
	1 room (quadrouple) at P 468.00 each per night x 3 nights 1,404.00
2.	Function Room at a rate of P 140.00 for the first two hours
III. SUPPLI	ES AND MATERIALS P 10,000.00
IV. PRINTI	NG COST 20,000.00
	T O T A L P 117,942.00
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TENTATIVE PROGRAMME

20 November 1991

1900 HRS '

Opening Ceremonies

21 November 1991

AM

Workshop objectives and scope

DENR Environmental Monitoring

Framework

Discussion

PM

Mapping activities

22 November 1991

AM

Continuation of mapping activities

DENR Environmental Research Framework

PM

Discussion

Consolidation of outputs

Closing Remarks