

フィリピン労働安全衛生センター
第2次事前調査団報告書

昭和62年6月

国際協力事業団
社会開発協力部

海 七

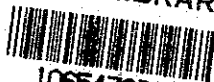
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国際協力事業団

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序

フィリピンにおいても、他の発展途上国と同様に工業化の進展に伴う新技術の導入及び新たな有害物質の出現により、労働条件及び環境が急激に変わり、各種の労働災害が多発している傾向にあるが、その労働災害による犠牲や経済損失は極めて大きいものがある。他方、今日のフィリピンにおいては、経済回復のための生産性向上が強く求められ、労働災害防止対策の推進が図られているが、現実的には労働災害防止に関する基礎的なデータの不足、労働災害の防止に関する技術・体制等が十分確立されていない。

このような現状から、フィリピン政府は、労働雇用省の外局として、労働安全衛生にかかる研修・情報サービスを行うことを目的とする労働安全衛生センターの設立を計画し、その実施について、我が国に対し無償資金協力及び技術協力を要請してきた。

この要請に基づき当事業団は、昭和60年8月に事前調査団を派遣し、その要請背景・内容の把握及び協力の妥当性の検討を行った。さらに、今般、実施協議調査団の派遣を前に、フィリピン側の日本の技術協力受入れ体制の確認をするために、労働省労働基準局安全衛生部労働衛生課長佃篤彦氏を団長とする第2次事前調査団を、昭和62年6月8日から6月17日まで現地に派遣した。

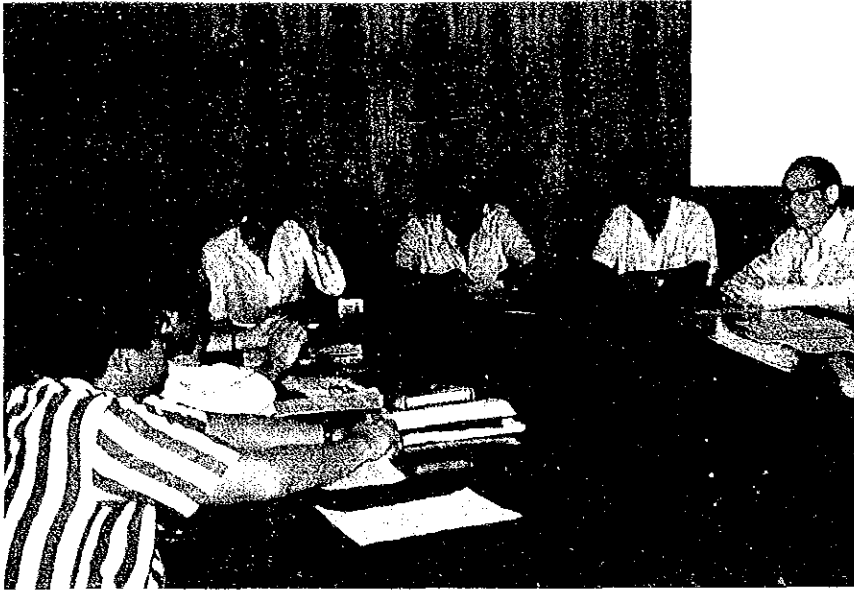
本報告書は、本件事前調査団の現地における調査結果を取りまとめたものである。

最後に、本調査派遣にご協力いただいた外務省、労働省及び在フィリピン日本大使館、その他関係機関の方々に対し深甚の謝意を表するとともに、今後のご支援をお願いするものである。

昭和62年6月

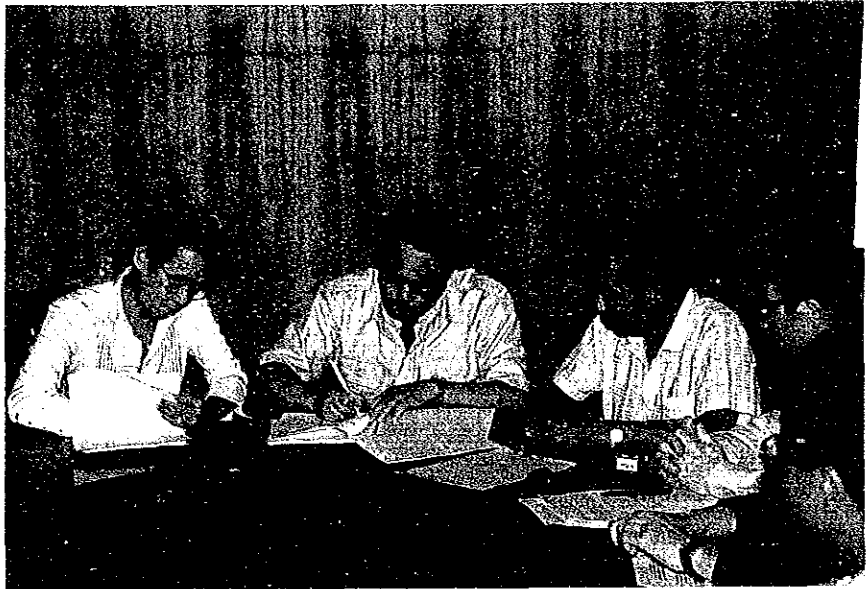
国協力事業団

理 事 玉 光 弘 明

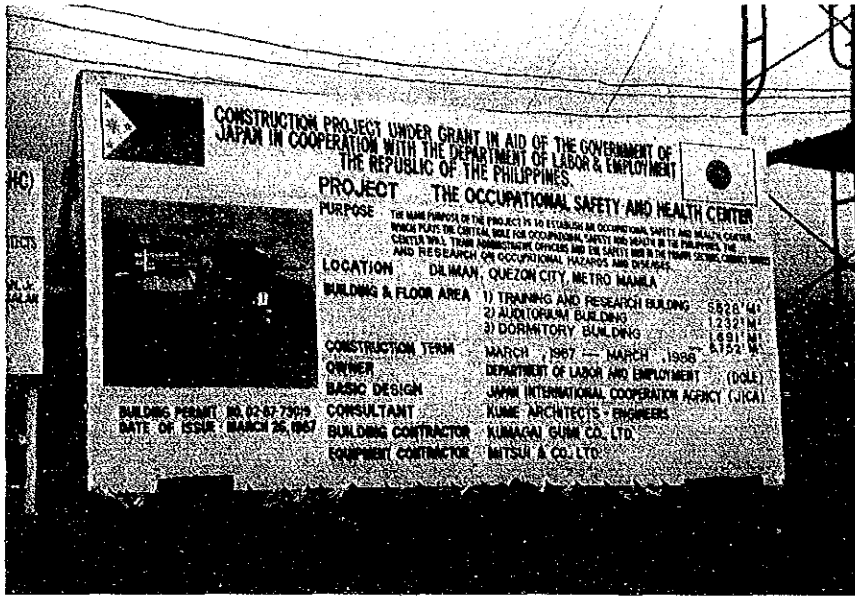


◀ECC事務所における会議

▶ミニッツ調印
左から：コントレラスECC局長、
佃団長、サンチェスBWC局長、
田中団員、長江団員

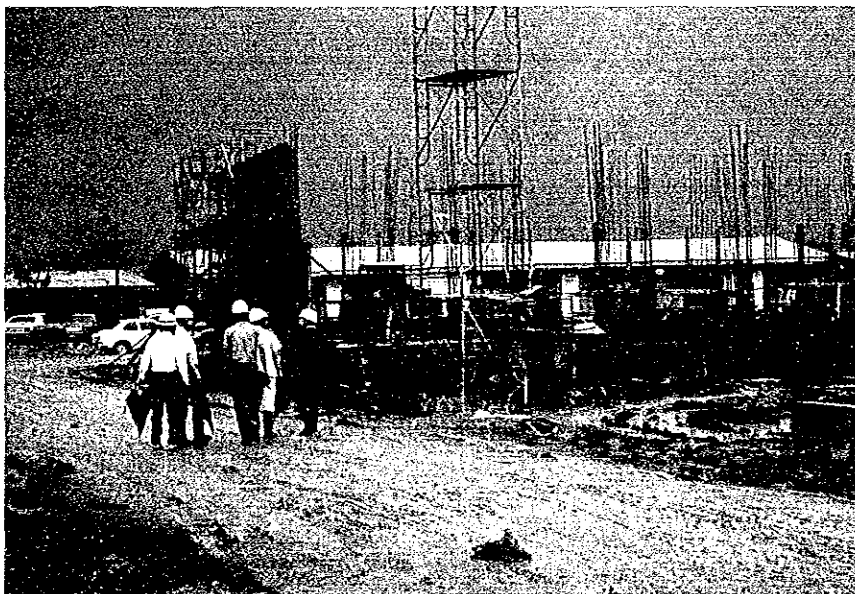


◀日・比関係者
市川専門家、チーボンヤン医務課長、
エストラダ医学研究課長、田中団員、
サンチェスBWC局長、小野団員、佃団長、
長江団員、飛鳥書記官、ラモス産業衛生課長、
コントレラスECC局長、ルイス広報課長、
小笠原団員



◀センター建設現場
(表カンパン)

▶センター建設現場
(昭和62年6月10日現在)



◀センター建設現場
(コンサル、建設業者の案内による現場視察)

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1. 事前調査団の派遣

1-1 派遣の経緯

フィリピン国においては労働関連災害が多発しており、国家開発計画（1983—1987）においても、労働安全衛生とりわけ労働条件の改善と環境行政の強化が緊急課題となっている。

しかしながら、労働雇用省内には、事業所における作業環境の測定、労働者の健康診断、安全・保護具の検査、労働災害の現状把握及びその原因究明等を行うための機関がなく、このことが労働安全衛生行政の不徹底となる要因となっている。

このためオブレ労働雇用大臣は、昭和57年8月に外務省賓客として来日した際、辻外務政務次官（当時）に、労働安全衛生センター設立に関する我が国の協力を非公式に要請した。その後、比労働雇用省（MOLE）に対し国際協力事業団より労働安全衛生専門家がアドバイザーとして派遣されたこともあり、同センター設立構想が具体的な計画としてまとめられ、昭和59年9月に在フィリピン大使館を通じ無償資金協力と技術協力に関する公式な要請書が提出された。昭和60年5月、外務省は年次協議ミッションを派遣し、要請は60年度案件として採択されることとなった。

その後、国際協力事業団は、昭和60年8月に当プロジェクト事前調査団を派遣し、要請の背景・内容、協力の内容等の主要項目を中心に調査・検討した。

他方、無償資金協力については、昭和61年5月に無償基本設計調査団が派遣され、交換公文（E/N）が同年8月に取り交わされ、昭和63年3月末の完工に向け建設が進んでいる。

今般、前回の事前調査団派遣から年月もたち、その間、フィリピンの政権が代ったこともあり、また、センター建設進捗状況も踏まえ、実施協議調査団の派遣を前にフィリピン側の日本の技術協力受入れ体制の確認のため本調査団が派遣された。

1-2 調査団の目的

本調査団の目的は、

- (1) センター建設の進捗状況の把握
- (2) フィリピン関係機関のプロジェクト実施・運営体制の確認
- (3) 日本側技術協力移転計画の確認

をフィリピン関係機関との協議を通して行うことであった。

なお、調査団派遣前の関係機関と協議の結果、以下の調査項目を設定した。

- (1) R/Dの日側・比側の署名者及びR/D発効日の確認
- (2) センター運営のための予算措置及び予算運用システムの確認
- (3) センターの理事会、合同委員会の機能及び労働雇用省内の外部組織との関連の確認
- (4) カウンターパートの具体的な採用選考方法、配置計画及びカウンターパートの定着化のため

めの対策の確認

- (5) カウンターパートの日本研修の日本側受入れ計画及び日側のA₂, A₃ フォームの決裁方法の確認
- (6) 機材の保守・管理に関する比側の対策の確認
- (7) 日本側技術移転計画及び専門家派遣計画の検討
- (8) センターの研修に関する日側の対応策の確認
- (9) センター建設進捗状況の把握

1-3 調査団の構成

- (1) 佃 篤彦 (総括, 健康管理) 労働省 労働基準局 安全衛生部 労働衛生課長
- (2) 田中 隆二 (安全管理) 労働省 産業安全研究所 電気研究部長
- (3) 小野 宏逸 (環境管理) 労働省 労働基準局 安全衛生部 労働衛生課
副主任中央労働衛生専門家
- (4) 長江 盛啓 (協力企画) 労働省 大臣官房 国際労働課 課長補佐
- (5) 小笠原壮一 (業務調整) JICA 社会開発協力部 海外センター課 特別囑託職員

1-4 調査日程及び主要面会者リスト

(1) 調査日程

日順	月/日	曜日	時 間	行 程	調 査 内 容	面 会 者
1	6 / 8	月	10:00 ~ 13:10 15:00 15:30 ~ 17:00	東京~マニラ (PR 431) マンダリンホテル	移動 チェックイン	JICA: 宮本所長, 岡崎所員, 市川専門家 日本大使館: 飛鳥書記官 (労働ア タッシュ)
				日本大使館・ JICA 事務所	表敬訪問・日程打合せ	
2	6 / 9	火	8:30 10:00 ~ 17:00	マンダリンホテル ECC 事務所	団内打合せ ECC, BWC 幹部表敬 訪問・日程打合せ 協議 (センター 建設進捗 状況説明, C/P 採 用選考方法・配置 ・待遇計画, センター 内部組織・外部機 構の機能等)	CONTRERAS・ECC 局長, SANCHEZ・BWC 局長, 他職員 市川専門家
3	6 / 10	水	8:30 10:00 ~ 12:00 14:00 ~ 17:00	マンダリンホテル プロジェクト・ サイト (ケノン市) プロジェクト・ サイト (ケノン市)	団内打合せ 建設月例会議参加 (工 事進捗状況, 今後の工 事計画等) 建設現場視察 協議 (予算措置・制度 等)	CONTRERAS・ECC 局長, SANCHEZ・BWC 局長, 他職員 コンサルタント, 建設業者, 機器サ プライヤー代表者, 市川専門家 コンサルタント, 建設業者 CONTRERAS・ECC 局長他職員 市川専門家

日順	月/日	曜日	時 間	行 程	調 査 内 容	面 会 者
4	6 / 11	木	10:30	マンダリンホテル	団内打合せ	市川専門家 CONTRERAS・ECC 局長, SANCHEZ・BWC 局長他職員 市川専門家
			13:00 ~ 17:30	ECC 事務所	協議 (R/D 署名者, R/D 発効日, C/P の日本研修, 機材 の維持・管理, 日 本技術協力内容等)	
			18:30 ~ 21:00	市内レストラン	ECC, BWC 主催 懇談会	
5	6 / 12	金	祭日 (独立記念 日)	マンダリンホテル	資料整理	
6	6 / 13	土		マンダリンホテル	資料整理	
7	6 / 14	日		マンダリンホテル	資料整理 (ミニッツ ドラフト作成)	
8	6 / 15	月	8:00	マンダリンホテル	団内打合せ (ミニッツ ドラフト検討)	CONTRERAS・ECC 局長, SANCHEZ・BWC 局長他職員 市川専門家, 飛鳥書記官 CASTRO・DOLE 事務次官 CONTRERAS・ECC 局長, SANCHEZ・BWC 局長他職員 市川専門家, 飛鳥書記官, 岡崎所員 CONTRERAS・ECC 局長, SANCHEZ・BWC 局長他職員 市川専門家, 飛鳥書記官, 岡崎所員
			10:00~14:00	ECC 事務所	ミニッツ ドラフト 検討・最終訂正	
			15:30	DOLE 事務所	表敬訪問・報告	
			16:30~17:00	ECC 事務所	ミニッツ署名	
			19:00~21:00	市内レストラン	ミッション主催 懇談会	
9	6 / 16	火		マンダリンホテル	資料整理, 業務整理	宮本所長, 岡崎所員 谷崎書記官, 飛鳥書記官
			16:00	JICA 事務所	調査結果報告	
			16:30	日本大使館		
10	6 / 17	水	8:30 ~ 9:00	マンダリンホテル	業務整理	
			15:00 ~ 20:00	マニラ~東京 (JAL 742)	移動	

(2) 比側面接者リスト

R. CASTRO

Acting Secretary
Department of Labor and Employment (DOLE)

J.B. CONTRERAS

Executive Director
Employees Compention Commision (ECC), DOLE

A.G. SANCHEZ

Director
Bureau of Working Condition (BWC), DOLE

M.C. DEQUIROS

Deputy Executive Director,
ECC, DOLE

N.S. CHIPONGIAN

Chief
Medical Division, ECC, DOLE

W.M. ESTRADA JR.

Chief
Research Division, BWC, DOLE

M.C. RUIZ

Chief
Publication and Information Section, BWC, DOLE

A.A. RAMOS

Chief
Industrial Hygiene Section, BWC, DOLE

2. 調査結果の概要及び結論

2-1 第1次事前調査団派遣からの推移状況

今回の調査団が派遣されたフィリピン側における状況は、昭和60年8月に派遣された第1次事前調査団との協議にかかる経過、合意を踏まえ、労働雇用省サンチェス労働条件局長及びコントラス労働補償委員会事務局長が中心となって所要の法的措置を講ずることをはじめ適切な対応に努めてきたことを十分うかがわせるほどに全般的な進展が認められるものであった。

それは、一方で、61年4月基本設計調査団の派遣、同年12月18日交換公文(E/N)署名等を経て、既に無償資金協力が実施に移され、特にセンター建物・施設にかかる建設工事が進行していることから、これと併行して、上述の対応が必要とされたことに担保された面があると思われる。

特に、本センターが、将来、フィリピン国にとって有意義な施設として機能するためには、日本側が適切かつ必要な技術移転を行うことが大前提であり、この観点から、フィリピン側によるセンターの位置付け、予算措置、カウンターパートの配置、研修参加者の確保等は決定的な重要性を持つところ、これらに係る措置状況は、労働雇用者の関係者において行われた最大限の努力の結果が反映されているものと認められる。

しかしながら、上記の措置状況が現実に裏打ちされるためには、現在、大統領府で審議中の本センター設立のための大統領令案(ミニッツANNEX II参照)が、上下両院招集日(7月27日)前にアキノ大統領により署名済みとなることが不可欠である。万一、7月27日までに、この大統領令が発効しない場合には、日本側にとっても大きな不安材料になると思われる、本調査団にとっても懸念されたところである。

2-2 調査結果の概要

今回調査を行った結果は、次の概要に述べるとおりであるが、総括すると、プロジェクト実施体制を中心に、フィリピン側における準備・措置振りは適切に行われている。第1次事前調査が行われてから、ほぼ2年を経過しており、かつ、この間に政変があったものの、日本側として、これまで予定していたスケジュールどおり技術協力に踏み切ることによって差し支えないものと思われる。

(1) 実施機関の組織概要

本センターは、労働雇用省の外局として設置され、労働条件局(BWC)及び労災補償委員会(ECC)がその協力機関となる。三者は相互協力関係の下に活動することになっており、いずれもOffice of the Secretary(官房)の監督・指導を受けることになる。

(2) プロジェクトの組織及び関係機関との組織関連

本センターの組織は今回提出された職員割振り表(ミニッツ ANNEX III参照)によることが予定されている。本センターはState Insurance Fundの保険特別会計により運営される

こととなるが、予算案の作成等は本センターの最高意思決定機関である理事会（Governing Board）で行われる。また、予算執行においては、会計検査院から本センターに出向する検査官が必要に応じて支出の妥当性及び適性をチェックすることとなる。また、日本側との技術協力においては、研修員派遣等手続において NEDA（国家経済開発庁）及び DFA（外務省）が関係する。さらに、本センターには合同委員会が設置され、毎年度技術協力計画の作成等に当たるが、これは、理事会との関係では、理事会の管理下に置かれることになる。

(3) プロジェクトの予算措置及び予算執行承認手順

プロジェクトの運営は保険特別会計（State Insurance Fund）により賄われることとなっており、今年度についても 5,000 万ペソ措置されることになっている。

予算については、予算案の作成は理事会において行われ、また、予算執行承認は、本センターに会計検査院から出向する会計検査官によるチェックを含め、体制が明確になっている。

(4) センター建設状況

本センター建屋等の建設工事現場も視察のうえ、その進捗状況につきフィリピン側等から説明を得たところ、当初、労働力不足及びセメント調達難があったため、厳密に言えば 1 週間程度の遅れがあるものの、おおむね基本計画通りに建設が進んでおり、63 年 3 月末までには、機器の据付けも含め竣工するものとの感触を得た。

(5) カウンターパートの配置計画及び採用計画

カウンターパートの配置は、（ミニッツ ANNEX III）のとおり予定しており、かつ、その採用資格要件は Job Description（案）（ミニッツ ANNEX IV）で検討している段階にある。62 年 10 月にも本格的な採用を行うこととしている。

(6) 専門家の生活環境

政変があったこと等で、日本側では生活、社会環境等の悪化を若干懸念する向きもあったが、今回、現地で調査した限りでは、従前と特に変わらず、専門家の生活環境の面で、新しい問題は生じていないものと思われる。

(7) 今年度研修員の受入れ

本調査団から、本件プロジェクトの R/D が署名されていなくとも、その効果的な技術協力の推進を図る観点から、本年度 3 名の研修員受入れの用意がある旨伝えたところ、フィリピン側も強い希望を示し、具体的に協議した結果、一応の合意をみた。

(8) 機材の保守・管理体制

機材の保守・管理については、機材を備えている各部長が管理責任者となり、特に高級精密機器の保守・管理のための専任スタッフの配置は、特に行わないこととしている。

機器の故障の際の対処方法及びスペア・パーツの調達方法としては、各部より総合サービス課（General Service Section）に連絡がなされ、この部所から機器サプライヤーへ連絡されることになる。また、サプライヤーとの間の保証期間中 2～3 年（注：無償機材の保証期間

は1年間であり、比側の誤解と思われる)は、故障、スペアパーツの調達は無料となるが、その後はセンターの経費により支弁される。

また、年間の保守・管理費(消耗品経費も含め)予算は、年間予算の5%を充当することとしている。

(9) 実施協議

ミッション側より次の事項について、比側の確認を行った。

④ R/D 署名者

日側は、調査団長(JICA フィリピン事務所との調整)が予定され、比側は、労働雇用省ノリエル次官が予定されている。

⑤ R/D 発効日

R/D 発効日は昭和63年1月1日とすることに双方合意したが、日本人専門家派遣の目標を1月とし、A₁フォームの比側準備期間が少なくとも2カ月半必要であることを踏まえれば、実施協議調査団派遣は遅くとも10月第1週目に派遣される必要があると史料される。

2-3 結 論

今回の調査においては、

- ① センター建物の建設工事が順調に進捗している。
- ② 日本側の技術移転を受けるための基盤の確保(センターの位置づけ、管理・運営費の措置及びカウンターパートの確保)
- ③ 研修参加者の確保(民間企業向け一部研修コースに関連する法的義務づけ、関係団体との調整)

が、それぞれメドがついている。

これらの3点が特に本プロジェクト技術協力を実施する場合、その成否に決定的な影響を与えるのにかんがみ、本調査団としては、フィリピン側関係者との協議及び現地調査を通じ、上述の①、②及び③につき、的確に確認し、把握することに努めた。

この調査の結果は、2-2の調査結果で概要述べたとおりであるが、①に関し、センターの建物の建設は順調に進んでおり、今後も特に問題がないとのことであった。また、②に関し、フィリピン労働雇用省関係者の立場において可能な限りの準備・措置が講じられていると認められ、さらに③に関し、作業環境測定に関する法的義務づけのため労働安全衛生基準の改正案(表-1参照)を検討していた。また、SOPIその他関係団体との研修コース実施に係る調整についても比側は十分な理解を示した。

以上を総括すると、日本側から技術協力を受けるためのフィリピン側における準備・措置は、全体的に整いつつあると、本調査団としては判断する。

また、今年度研修員3名の受入れ及びR/Dの発効日(1988年1月1日)につき、フィリピ

表-1

PROPOSED NEW RULE ON
WORKING ENVIRONMENT MEASUREMENT

10/2

Proposed Rule No. 1077: Working Environment Measurement.

1077.01: General Provision:

- (1) The employer shall exert efforts to maintain and control the working environment in comfortable and healthy conditions for the purpose of promoting and maintaining the health of his workers.

1077.02: Definition:

Working Environment Measurement shall mean sampling and analysis carried out in respect of the atmospheric working environment and other fundamental elements of working environment for the purpose of determining actual conditions therein.

1077.03: Requirements:

- (a) Working environment measurement shall include temperature, humidity, pressure, illumination, ventilation, concentration of substances and noise.
- (b) The employer shall carry out the working environment measurement in indoor or other workplaces where hazardous work is performed and shall keep a record of such measurements which shall be made available to enforcing authority.
- (c) The working environment measurement shall be performed periodically as may be necessary but not longer than annually.
- (d) The working environment measurement shall be performed by the safety and medical personnel who have taken adequate training and experience in working environment measurement.
- (e) In the event of inability to perform the working environment measurement, the employer shall commission the Bureau/Center for Occupational Safety and Health/Regional Labor Office concerned and other institutions accredited or recognized by the Bureau, to perform the measurement.

ン側と合意に達し、これらとの関係で、実施協議チームの派遣時期は9月下旬～10月上旬とすることが必要とされ、事実、フィリピン側からその時期の R/D ミッションの派遣を強く希望していたところである。

さらに、前回及び今回の事前調査団長とフィリピン側責任者との間で交されたミニッツにおける合意事項を R/D の内容の基本とすることで、フィリピン側も合意していることから、実務面でも、何ら問題がないものと思われる。

以上にかんがみ、本調査団としては、日本側が本件プロジェクト技術協力に踏み切っても差し支えないと考えるので、実施協議チームの派遣は、できるだけ先方希望の時期に行うよう検討することが望ましいと考える。

2-4 留意点

2-3 結論で述べたとおり、基本的には、フィリピン側における体制は日本側の技術協力を受け止め得る程度に基礎固めはできているものと認められる。

しかしながら、2-3 結論で述べた、②日本側の技術移転を受けるための基盤整備及び③研修参加者の確保については、それぞれ日本側にとって不安材料となる問題が絡んでいる。

前者②に関しては、センターの位置づけ、予算措置及びカウンターパートの確保のいずれも、大統領府で審議中の本センターの設立のための大統領令（案）が発せられるか否かにかかっている。特に7月27日には上下両院が招集されることになるので、この日までにアキノ大統領による署名が行われなければ、法案を国会で審議するという形にならざるをえず、その成立がいつになるか明確な見通しが立たなくなるおそれがある。

また、後者については、事業者に作業環境測定の実施を義務づけるものであり、そのための安全衛生基準改正案が検討されているとはいえ、必ずしも改正が実現されない場合も予想される。

他方、日本側の問題として、まず年次別分野別技術協力（移転）計画を、フィリピン側による Courter Proposal を十分考慮しながら検討する必要がある。これに関連して、フィリピン側から提供のあった Job Description（案）についても、上記検討との関係のもとにチェックを行い、できるだけ早くフィリピン側にコメントすることも必要である。

については、早急に国内支援体制としての国内委員会をスタートさせ、長期専門家として予定されている者を中心に、上述の事項を処理するとともに、supplier 及び consultant との technical meeting を持ち、機器据付けに関する処方せんを取りまとめ、フィリピン側にこれを提供すること等、日本側として、技術協力の実施に向けて着実な前進を図らなければならないものとする。

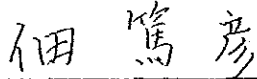


3. ミニッツ

MINUTES OF DISCUSSIONS
BETWEEN THE JAPANESE STUDY TEAM AND THE AUTHORITIES
CONCERNED OF THE GOVERNMENT OF THE REPUBLIC OF THE PHILIPPINES
ON THE OCCUPATIONAL SAFETY AND HEALTH CENTER PROJECT

The Japanese Study Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (JICA), and headed by Dr. Atsuhiko Tsukuda visited the Republic of the Philippines from June 8, 1987 to June 17, 1987 for the purpose of a supplementary study and exchange of views with the representatives of the Philippine Department of Labor and Employment concerning the implementation of the Occupational Safety and Health Center Project.

As the result of the discussions, both parties agreed as stated in the attached document.

Manila, June 15, 1987

		
DR. ATSUSHIKO TSUKUDA	ATTY. AUGUSTO G. SANCHEZ	ATTY. JORGE B. CONTRERAS
Leader of the Japanese Study Team	Director Bureau of Working Conditions Department of Labor and Employment	Executive Director Employees Compensation Commission Department of Labor and Employment

1. The Philippine side explained that the progress of construction of the Occupational Safety and Health Center (hereinafter referred to as "the Center") under the Japanese Grant in Aid component of the Project is proceeding almost on schedule (Annex I).

Also, the installation of equipment, machinery and facilities is expected to be completed by the end of March 1988.

The Philippine side requested the Team to send Japanese experts who are going to be dispatched during the installation period on a part time basis as advisers so that the installation can be made in line with their ideas. The Japanese side proposed from the practical point of view to organize meetings in Japan among the experts, suppliers and consultants as soon as possible and the Philippine side agreed on the idea.

2. The Team confirmed that the Philippine side is taking the necessary steps in order that an Executive Order be signed by the President for the establishment of the Center which is expected hopefully before the Congress of the Philippines convenes on July 27, 1987. Once it is approved, the yearly budget necessary for the management and operation of the Center will be allocated from the State Insurance Fund. The draft Executive Order appears in Annex II.
3. The Team confirmed that the Philippine side is taking steps to revise the Occupational Safety and Health Standards which will require employers to measure the working environment and to improve medical examinations, thereby resulting in the maximum utilization of the Center.
4. The Philippine side explained the functions of and the working relationship between the Governing Board and the Joint Committee and the Team understood the explanations given. However, both parties agreed that this matter will be further discussed between the Implementation Study Team and the Philippine side.
5. The Philippine side explained that once the Executive Order mentioned in 2. above is enacted, the technical staff of the Center will be

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exempted from the application of the general regulations prescribed by the Office of Compensation Position and Classification, Department of Budget and Management, which fixes the salary scales of government employees. This will enable the Governing Board of the Center to decide the salary scale of the technical staff of the Center to make it competitive enough to locate and maintain well qualified and competent staff so that the Center can operate perpetually in such a manner as it is expected.

6. The Team confirmed that the Philippine side is making the necessary arrangements for the recruitment of the counterpart and other personnel in the Center so that the Philippine side can immediately appoint the needed personnel once the Center is established.

The proposed number, personnel distribution to each division and section, and job description for the positions are shown in Annexes III and IV, respectively.

7. The Philippine side confirmed that the Government of Japan will accept three (3) Philippine counterpart personnel for their training in Japan in fiscal year 1987. Their respective technical fields are agreed to be Working Environmental Control, Occupational Health Control and Occupational Safety Control.

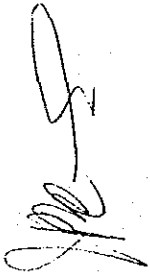
8. The Philippine side will submit as soon as possible its counter proposal for the Tentative Implementation Schedule of Japanese Technical Cooperation in response to the one prepared by the Japanese Government.

Both sides agreed that the counter proposal will be studied by the Japanese Government upon its receipt in Japan and the comments thereon forwarded to the Philippine side as soon as possible.

9. The Philippine side presented the job description of the staff of the Center (Annex IV). The Team mentioned that the Japanese side will give comments on it soon after the consultation with experts concerned in Japan.

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10. The Philippine side stressed the need for the training of medical technologists and X-ray technicians, the importance of which the Team understood.
11. The Philippine side understood the desirability of close coordination between the Center and other institutions which undertake training programs similar to those to be conducted by the Center.
12. Both parties confirmed that the contents of this document together with the minutes of discussions of the Preliminary Study Team will constitute the basis for the Record of Discussions to be prepared when the Implementation Study Team visits the Philippines.



100

SHEET TITLE	REMARKS	PRODUCTION		PROJECT NAME		THE PROJECT FOR THE ESTABLISHMENT OF THE OCCUPATIONAL SAFETY AND HEALTH CENTER												DRAWN DATE
		INSTALLATION & TEST	TEST, ADJUSTMENT & INSPECTION	SITE LOCATION	PROJECT NAME	DILIMAN, QUEZON CITY, METRO MANILA, PHILIPPINES												
PROCESS SCHEDULE		DATE	DATE	1991	1988	1	2	3	4	5	6	7	8	9	10	11	12	
FLOOR	MAP OF ROOMS																	
1	DIAGNOSTIC ROOM		DIAGNOSTIC LAB. EQUIPMENT															
1	ECG ROOM		MEDICAL EXAMINATION EQUIPMENT															
1	AUDIO INSPECTION ROOM																	
1	MEASUREMENT ROOM		X-RAY EQUIPMENT															
1	X-RAY ROOM																	
1	WASHING ROOM																	
1	DARK ROOM																	
1	STORAGE		TESTING & TRAINING EQUIPMENT															
1	TEST ROOM - 1																	
1	TEST ROOM - 2																	
1	TEST ROOM - 3																	
1	WORK SHOP TRAINING ROOM																	
1	STORAGE																	
1	SAMPLE STORAGE ROOM																	
1	REAGENT STORAGE ROOM																	
1	WATER TREATMENT ROOM																	
1	EQUIPMENT ROOM																	
1	EQUIPMENT ROOM - 2																	
1	X-RAY DIFFRACTOMETER																	
1	WORKING ENVIRONMENT MEASUREMENT LABORATORY																	
1	TRAINING LABORATORY																	
1	EQUIPMENT ROOM - 3																	
1	EQUIPMENT ROOM - 4																	
1	EDUCATION CONTROL ROOM																	
1	LARGE CLASS ROOM																	
1	PROJECTION ROOM																	
1	B/W STUDIO																	
1	SAMPLE CLASS ROOM/SEMINAR ROOM																	
1	RESPIRATOR TEST ROOM																	
1	LOCAL EXHAUST VENTILATION EXPERIMENT ROOM																	
1	PRINTING ROOM																	
1	TRAINING PUBLIC INFORMATION OFFICE																	
1	EXHIBITION AREA																	
1	MEDICAL EXAMINATION SECTION																	
1	TEST PREP ROOM																	
1	PREPARATION ROOM																	
1	BLEEDING ROOM																	
1	WORKING ENVIRONMENT EQUIPMENT STORAGE																	
1	DATA LOGGING ROOM																	
1	COMMON DIVISION																	
1	PACKING SCHEDULE																	
1	SHIPPING SCHEDULE																	
1	SCHEDULE																	

MITSUBISHI & CO., LTD.

(10)

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SHEET TITLE		PROJECT NAME												BUILDING AREA				
PROGRESS SCHEDULE		SITE LOCATION												TOTAL FLOOR AREA				
NO.	DESCRIPTION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	1988	1989	1990	REMARKS
1	Temporary Work																	
2	Direct Temporary Work																	
3	Earth Work																	
4	Concrete Work																	
5	Form & Steel Der. Work																	
6	Structural Steel Work																	
7	Concrete Deck & Deck Work																	
8	Water Proof Work																	
9	Stone Work																	
10	Tile Work																	
11	Car. Wk. Work																	
12	Roof Work																	
13	Metal Work																	
14	Plastering Work																	
15	Metal S. Wk. Work																	
16	Wooden Doors & Windows Work																	
17	Glass Work																	
18	Paint Work																	
19	Interior & Exterior Finish Work																	
20	Miscellaneous Work																	
21	Mechanical, Electrical & Ventilation Work																	
22	Plumbing Work																	
23	Electrical Work																	
24	Exterior Work																	
25	Equipment Work																	
	Spinning Schedule																	
	Barical Schedule																	
	Amount of Work																	

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Republic of the Philippines
OFFICE OF THE PRESIDENT
Malacanang

EXECUTIVE ORDER NO. _____

ESTABLISHING AN OCCUPATIONAL SAFETY AND HEALTH CENTER
ATTACHED TO THE MINISTRY OF LABOR AND EMPLOYMENT

WHEREAS, There is an imperative need to upgrade the capability of the Government to eliminate or reduce work-related injuries, illnesses and deaths which have resulted in huge economic losses in terms of manhours, destruction of property and more expenditure for employees' compensation, not to mention the untold suffering of victims of industrial accidents and their families;

WHEREAS, The effective implementation of occupational health and safety programs will enhance significantly the productivity of industries, a critical factor in the attainment of national developmental goals, and at the same time promote the health, efficiency and general well-being of the Filipino worker through the improvement of the quality of his working life;

WHEREAS, The responsibility of the Ministry of Labor and Employment in the development and implementation of occupational health and safety programs include the institution of a continuing system of research and study that will be addressed to existing and new occupational hazards brought about by the introduction of new technology, machines and toxic substances in industries and agriculture;

WHEREAS, There is a need to establish an expert industrial disease and occupational safety intelligence and training center that will provide the mechanisms in the achievement of the objectives set forth in the issuance;

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WHEREAS, The Government of Japan through Japan International Cooperation Agency has so graciously acceded to the request of the Government of the Philippines to finance the construction of the Center envisioned in this issuance and equip the same with the necessary instruments, equipment, laboratories and other facilities as well as appropriate technology and expertise under its grant-aid and technical cooperation programs;

NOW, THEREFORE, I, CORAZON C. AQUINO, President of the Republic of the Philippines by virtue of the powers vested in me by the Constitution do hereby order the establishment of the Occupational Safety and Health Center in the Ministry of Labor and Employment.

SECTION 1. The Center shall have the following powers and functions:

a. To undertake continuing studies and researches on occupational safety and health, including those relating to the establishment of causal connection between diseases and occupations and the development of medical criteria in determining the nature and extent of impairment or diminution in health, functional capacity or life expectancy of the employees as a result of their work and working conditions;

b. To plan, develop and implement training programs in the field of occupational safety and health, and related interests;

c. To serve as a clearing house of information and innovative methods, techniques and approaches in dealing with occupational safety and health problems and institute a mechanism of information dissemination to the general public;

d. To monitor the working environment by the use of industrial hygiene, field and laboratory equipment and conduct medical examinations of workers exposed to hazardous substances for the ready detection of occupational diseases;

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e. To act as the duly recognized agency to undertake practical testing for safe use and set standard specifications of personal protective and other safety devices;

f. To assist government agencies and institutions in the formulation of policies and standards on occupational safety and health and other matters related thereto and issue technical guidelines for the prevention of occupational diseases and accidents;

g. To adopt annually a budget of expenditures of the Center and its staff chargeable against the State Insurance Fund: Provided, that the SSS and GSIS shall advance on a quarterly basis the remittances of allotment of the loading fund for this Center's operational expenses based on its annual budget as duly approved by the Ministry of the Budget and Management, Provided further, that such budget shall not exceed 4% of 12% of the loading fund based on the total of the State Insurance Fund and its earnings as of December 31st of the preceding year;

h. To sue and be sued in Court;

i. To acquire property, real or personal, which may be necessary or expedient for the attainment of the purposes of the Center;

j. To receive donations from domestic and international organizations, foreign governments and other sources provided that the same are in accordance with law and not repugnant to the policies of the State;

k. To enter into agreements or contracts for such service and aid as may be needed for the proper, efficient and stable administration of its program;

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l. To perform such other acts as it may deem appropriate for the attainment of the purposes of the Center and proper enforcement of the provisions of this Executive Order; and,

m. To enlist the assistance of government agencies and private organizations in carrying out the objectives of the Center.

SECTION 2. To insure effective coordination and rationalization of efforts of the Center, a Governing Board is hereby created to be composed of three ex-officio members, namely: the Minister of Labor and Employment as Chairman, the Director of the Bureau of Working Conditions and the Executive Director of the Employees' Compensation Commission; and two appointive members, one of whom shall represent the employees and the other, the employers, to be appointed by the President of the Philippines for a term of three years. The appointive member shall have at least five years experience in health and safety programs or employees' compensation and social security programs. All vacancies shall be filled for the unexpired term only. Internal rules governing the conduct of meetings and operations as well as per diems and allowances of the Members of the Board shall be approved by the Governing Board.

The Center shall have the status and category of a government corporation and shall be attached to the Ministry of Labor and Employment for policy coordination and guidance.

SECTION 3. The general conduct of operations and management functions of the Center shall be vested in the Executive Director under the immediate supervision of the Governing Board. He shall be appointed by the President of the Philippines upon the recommendation of the Chairman of the Board. He shall be assisted by a Deputy Executive Director who shall likewise be appointed by the President of the Philippines. The Executive Director and Deputy Executive Director must have at least a Bachelor's degree and must have had experience of

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at least five years in the administration of occupational health and safety or employees' compensation and social security programs. Their annual salary shall be determined by the Governing Board.

The Executive Director of the Occupational Safety and Health Center and for as long as necessary, a chief expert on occupational safety and health from the Japan International Cooperation Agency, shall sit as non-voting member of the Board.

SECTION 4. The technical staff and other personnel of the Center shall be appointed by the Chairman of the Governing Board upon recommendation of the Executive Director, provided that technical personnel and positions of the Center as determined by the Governing Board shall not be subject to office of Compensation and Position Classification salary scale.

SECTION 5. To insure its accessibility to workers, employers and the general public, the Center shall be located at North Avenue, Diliman, Quezon City, in a two-hectare lot owned by the Philippine Overseas Employment Administration, Ministry of Labor and Employment. The ownership of the land shall in due course be transferred within a reasonable time to the Center upon payment of reasonable compensation.

SECTION 6. The Administrator, Social Security System (SSS) and the President and General Manager, Government Service Insurance System (GSIS) are hereby ordered to immediately release the amount of FIFTY MILLION PESOS (P50,000,000.00) out of the loading fund of the State Insurance Fund and its earnings, on a sharing of 70% for the SSS and 30% for the GSIS which shall constitute the initial appropriations of the Center for calendar year 1987. Thereafter, the SSS and GSIS shall remit to the Center, on the same sharing basis such amount corresponding to its annual budget in accordance with the provisions of this Executive Order.








SECTION 7. The Center may collect reasonable fees and charges for working environment measurement, medical examinations and training, safety and equipment testing, and for the use of its equipment/instrument and facilities; provided however, that the schedule of these fees and charges shall be published once a week for two (2) consecutive weeks in a newspaper of general circulation before it becomes effective. The Fund so collected by the Center pursuant to this Section shall accrue to the Center Research Fund and shall be disbursed only in the implementation of the programs of the Center.

SECTION 8. The Governing Board shall issue such rules and regulations as may be necessary to implement the provisions of this Order.

SECTION 9. Any provision of law, rules or order which is inconsistent with any provisions of this Executive Order is hereby repealed or amended accordingly.

SECTION 10. This Order shall take effect immediately.

Done in the City of Manila, this _____ day of _____ in the Year of Our Lord, Nineteen Hundred and Eighty Seven.

(SGD.) CORAZON C. AQUINO
President
Republic of the Philippines

By Authority of the President:

(SGD.) JOSEF ARROYO
Executive Secretary

ESTIMATED INITIAL OUTLAY FOR THE OSHC

1. Land Acquisition*		¥ 20,000,000.00
2. Construction Work:		
a. Land Development	¥ 1,484,720.00	
b. Infrastructural Work	1,500,000.00	
c. Fence Work	1,000,000.00	
d. Landscaping	500,600.00	
	Sub-total	¥ 4,484,720.00
3. Office Furniture (not covered by Grant-Aid)		1,500,000.00
4. Kitchen Utensils:		150,000.00
5. Carpets, Drapes and other Interior Design Accessories		1,000,000.00
6. Dormitory Supplies (Mattresses, etc.)		500,000.00
7. Books, periodicals, journals, etc. for library		2,500,000.00
8. Official Vehicles		
a. 5 cars	¥ 1,500,000.00	
b. 2 vans	1,000,000.00	
c. 2 x-ray mobile units	1,500,000.00	
	Sub-total	¥ 4,000,000.00
9. Motorpool Equipment		1,500,000.00
10. Office Equipment (not covered by Grant-Aid)		2,000,000.00
11. Estimated Annual Operational Expenses of the Center for 1987		11,665,500.00
12. Costs for Relocating Socio-Economic Projects of Q.C. Government		500,000.00
13. Reserves for Unforeseen Expenditures		699,783.00
		<u>¥ 50,000,000.00</u>

①

* To purchase lot from FOEA which has the title.


ANNEX III

REQUIREMENT OF FULL-TIME PERSONNEL IN OSHC

OFFICE	JICA LONG-TERM EXPERT	LINE PERSONNEL	SUPPORT PERSONNEL
1. Executive Director's Office	(1)	5	7
Executive Director		1	
Chief Adviser	(1)		
Deputy Executive Director		1	
Secretary/Clerk			3
Messenger			1
Driver			2
Chief, EDP Section		1	
System Analyst		1	
Data Programmer		1	
Computer operator			1
2. Administrative Division	(1)	12	6
Chief of the Division		1	
Coordinator of Experts	(1)		
Secretary			1
a) Chief, Finance & Budget Section (Accountant)		1	
Budget officer		1	
Bookkeeper		1	
Cashier		1	
Clerk			2
b) Chief, Personnel Section		1	
Personnel officer		1	
Records officer		1	
Clerk			2
c) Chief, General Services Section		1	
Building Administrator		1	
Property & supply officer		1	
Maintenance officer		1	
Clerk			1
3. Training & Public Information Division	(1)	17	8
Chief of the Division		1	
Expert on Training & Education (1)			
Secretary			1
Driver			2

a) Chief, Training Coordination Section		1	
Training Coordinator (Occ. Safety, Ind'i. Hygiene, Medicine, Labor Inspector)		4	1
Clerk			
b) Chief, Audio-visual Education Section		1	
Audio-visual Editor		1	
Audio-visual Cameraman		1	
Audio-visual Engineer		1	
Audio-visual Aide			1
Clerk			1
c) Chief, Public Information Section		1	
Editor		1	
Photographer		1	
Illustrator		1	
Printer		1	
Printing Aide			1
Displayer of Museum (Curator)		1	
Librarian		1	
Clerk			1
4. Health Control Division (4)*		25	15
Chief of the Division		1	
Expert on Occ. Medicine (1)			
Expert on Clinical Technology (1)			
Expert on X-ray Technology (1)			
Expert on Bacteria Cultivation (1)			
Secretary			1
Driver			4
a) Chief, Medical Exam. Section		1	
Industrial Physician		4	
Industrial Nurse		4	
Medical Examination Aide			4
Clerk			2
b) Chief, Diagnostic Laboratory		1	
Clinical Technologist		4	
X-ray Technologist		4	
Bacteria Cultivation Technologist		2	
Medical Examination Aide			2
Clerk			1
c) Chief, Medical Research Section		1	
Medical Researchers		3	
Clerk			1
(4)* - Long-term - 1			
Short-term - 3			

4. Safety Control	(1)	11	10
Chief, of the Division		1	
Expert on Occ. Safety	(1)		
Secretary			1
Driver			1
a) Chief, Safety Test Section		1	
Senior Safety Engineer (Boiler, safety devices)		2	
Junior Safety Engineer - do -		2	
Safety Test Aide			2
Clerk			1
b) Chief, Safety Research & Survey Section		1	
Senior Safety Engineer (Researcher)		2	
Junior Safety Engineer (Researcher)		2	
Research Aide			4
Clerk			1
5. Environmental Control Division	(1)	17	13
Chief of the Division		1	
Expert on Working Environment Measurement	(1)		
Secretary			1
Driver			3
a) Chief, Work Environment Section		1	
Senior Measurement Specialist		5	
Junior Measurement Specialist		5	
Measurement Aide			5
Clerk			1
b) Chief, Industrial Hygiene Section		1	
Senior Ind'l Hygiene Engineer (Respirator, Environmental Improvement)		2	
Junior Ind'l Hygiene Engineer (do)		2	
Industrial Hygiene Aide			2
Clerk			1
Total	(9)	87	59





JOB DESCRIPTION

Position Title: CHIEF, TRAINING AND PUBLIC INFORMATION
DIVISION

Duties/Responsibilities:

- 1) Plans, organizes, directs, coordinates and controls the technical and administrative activities of the Division staff;
- 2) Directs and administers the undertaking of training and public information;
- 3) Approves, directs and coordinates the specific programs of the different units of the Division;
- 4) Writes position papers, articles, speeches, messages and press releases on various occupational safety and health subjects;
- 5) Gives consultative guidance to representatives of industries on safety and health education of workers;
- 6) Edits and reviews the work of the staff;
- 7) Executes plans and programs for public relations activities of the Center;
- 8) Performs other related functions as may be assigned from time to time.

Education Required: Bachelor's degree in Education/
Mass Communication preferably
with Master's degree in related
field
Training on Training Administration/
Training Information Course

Experience Required: Five years experience in training
and information

CSC Eligibility: Career Service Prof/Teachers' Board

Position Title: CHIEF, TRAINING COORDINATION SECTION

Duties/Responsibilities:

- 1) Plans, supervises and directs the coordination activities.
- 2) Organizes specific training courses and seminars in coordination with government and private agencies involved in safety and health;
- 3) Prepares guides for proper implementation of the training programs;
- 4) Coordinates, organizes and supervises conventions and conferences and monitors their activities;
- 5) Performs related functions as may be assigned from time to time.

Education Required: Bachelor's degree (Engineering, Education, Mass Communication)
Trainers' Training Course

Experience Required: Three years experience in training coordination

CSC Eligibility: RA 1080/Teachers' Board/Career Service Prof

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Position Title: TRAINING COORDINATOR

Duties/Responsibilities:

- 1) Prepares plans and designs training programs;
- 2) Determines and selects sources of information needed in developing training programs;
- 3) Assists in monitoring, analyzing and evaluating the development and progress of training programs;
- 4) Performs other functions as may be assigned from time to time.

Education Required: Bachelor's degree preferably Education, Mass Communication Trainers' Training Course

Experience Required: Two years experience in training coordination

CSC Eligibility: Career Service Prof/Teachers' Board



Position Title: CHIEF, AUDIO-VISUAL EDUCATION SECTION

Duties/Responsibilities:

- 1) Plans, supervises and directs the audio-visual programs;
- 2) Supervises the operation of audio-visual equipment;
- 3) Plans, supervises and coordinates the preparation of tools and materials necessary for audio-visual showing;
- 4) Supervises the editing and operation of certain audio-visual aids and/or materials;
- 5) Supervises the recording and rebroadcast of audio-visual presentation;
- 6) Performs other related functions as may be assigned from time to time.

Education Required: Bachelor's degree with vocational training course

Experience Required: Two years experience in audio-visual operation and/or related field

CSC Eligibility: Any appropriate eligibility

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Position Title: AUDIO-VISUAL EDITOR

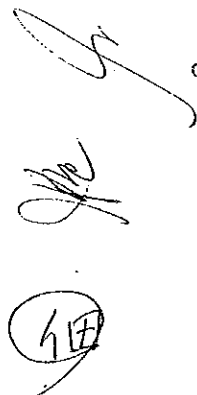
Duties/Responsibilities:

- 1) Prepares and edits audio-visual tools and materials necessary for presentation;
- 2) Makes arrangement for audio-visual presentation and monitors its activities;
- 3) Reviews and revises materials submitted for audio-visual presentation;
- 4) Proofreads and checks manuscripts to conform with desired form and style;
- 5) Performs other related functions as may be assigned from time to time.

Education Required: Bachelor's degree with vocational training course

Experience Required: One year experience in audio-visual editing

CSC Eligibility: Appropriate civil service eligibility

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Position Title: AUDIO-VISUAL ENGINEER

Duties/Responsibilities:

- 1) Renders technical assistance in planning and directing audio-visual programs;
- 2) Develops specific audio-visual materials and aids needed in the training activities;
- 3) Manages the operation of audio-visual equipment and other apparatuses;
- 4) Takes responsibility for maintenance, repair and smooth operation of the audio-visual system;
- 5) Performs other related functions as may be assigned from time to time.

Education Required: Bachelor's degree in Engineering with vocational training

Experience Required: One year experience in audio-visual management

CSC Eligibility: RA 1080 (Board)

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Position Title: AUDIO-VISUAL CAMERAMAN

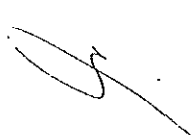


Duties/Responsibilities:

- 1) Takes audio-visual photographs of training and informative materials and operates portable camera, video projector, instant slide processor, etc. for use in training activities;
- 2) Devises methods of taking photographs and processing of the same;
- 3) Coordinates with the three Divisions in undertaking activities that will produce good audio-visual results;
- 4) Performs other related functions as may be assigned from time to time.

Education Required: Second year college
Vocational training course in
photography

Experience Required: One year experience in audio-
visual photography

CSC Eligibility: None required

Position Title: AUDIO-VISUAL AIDE

Duties/Responsibilities:

- 1) Assists in the operation of audio-visual equipment such as video camera, video projector, overhead projector, instant slide processor;
- 2) Records and rebroadcasts audio-visual presentation;
- 3) Requisitions supplies and materials;
- 4) Assists in maintenance of audio-visual equipment and tools;
- 5) Performs other related functions as may be assigned from time to time.

Education Required: Second year college with vocational course training

Experience Required: One year experience in audio-visual operation

CSC Eligibility: None required



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Position Title: CHIEF, PUBLIC INFORMATION SECTION

Duties/Responsibilities:

- 1) Plans, supervises and directs the public information activities of the Section;
- 2) Develops and undertakes public information programs on occupational safety and health for dissemination to the participants during training, seminar and conferences;
- 3) Supervises the preparation of information materials in coordination with various Divisions;
- 4) Supervises the preparation of annual reports, position papers, articles and other communication;
- 5) Studies and reviews surveys and researches prepared by various Divisions for dissemination to interested parties concerned with occupational safety and health;
- 6) Performs other related functions as may be assigned from time to time.

Education Required: Bachelor's degree in Education/
Mass Communication

Experience Required: Three years experience in public
information and/or related field

CSC Eligibility: Career Service Prof/Teachers'
Board

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Position Title: EDITOR.

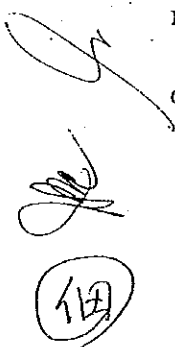
Duties/Responsibilities:

- 1) Prepares editing and publication of books, journals, manuals, handouts and other printed materials needed in the training session;
- 2) Assists and consolidates surveys and studies prepared by other Divisions;
- 3) Helps facilitates exchange of informative materials between government and private agencies and international organizations concerned with occupational safety and health;
- 4) Assists in the maintenance of mailing list;
- 5) Performs other related functions as may be assigned from time to time.

Education Required: Bachelor's degree in Mass Communication/
Education

Experience Required: Two years experience in public
information and/or related field

CSC Eligibility: Career Service Prof/Teachers' Board



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Position Title: PRINTER

Duties/Responsibilities:

- 1) Renders technical assistance in planning and directing printing activities of the Division;
- 2) Develops specific printing materials and aids needed in the training and public information activities;
- 3) Manages the operation of printing equipment and other apparatuses;
- 4) Takes responsibility for maintenance, repair and smooth operation of the printing equipment;
- 5) Performs other related functions as may be assigned from time to time.

Education Required: High school graduate
Vocational course

Experience Required: One year experience in printing management and/or related field

CSC Eligibility: None required



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Position Title: PHOTOGRAPHER

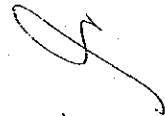
Duties/Responsibilities:

- 1) Takes still color or black and white pictures to illustrate the training activities and photo display;
- 2) Prints, enlarges and recopies pictures;
- 3) Develops and retouches negative films or plates;
- 4) Prepares chemicals and adjusts equipment necessary for printing;
- 5) Performs other related functions as may be assigned from time to time.

Education Required: High school graduate
Completion of relevant vocational course.

Experience Required: One year experience in photography

CSC Eligibility: None required



Position Title: ILLUSTRATOR

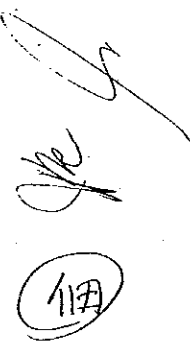
Duties/Responsibilities:

- 1) Prepares maps, charts, graphs and other illustrative devices concerning occupational safety and health for publication, demonstration, instruction or reference;
- 2) Makes illustration of tables, graphs and maps based on statistics and other data compiled from research studies;
- 3) Draws pictorial presentation of important ideas on leaflets, posters, pamphlets and bulletins;
- 4) Performs other related functions as may be assigned from time to time.

Education Required: High school graduate
Completion of relevant vocational course

Experience Required: One year experience in illustration work

CSC Eligibility: None required



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Position Title: PRINTING AIDE

Duties/Responsibilities:

- 1) Assists in the operation of printing equipment;
- 2) Requisitions supplies and materials;
- 3) Assists in maintenance of printing equipment and tools;
- 4) Performs other related functions as may be assigned from time to time.

Education Required: Second year college
Vocational course

Experience Required: One year experience in printing

CSC Eligibility: None required

J. G.

(15)

Position Title: DISPLAYER OF MUSEUM (CURATOR)

Duties/Responsibilities:

- 1) Formulates policies and sets up rules and regulations;
- 2) Directs and supervises the preparation of occupational safety and health exhibits;
- 3) Plans and makes schedules for the viewing of displays/exhibits ;
- 4) Conducts tour of the Museum and gives lectures on each particular display;
- 5) Maintains discipline in the exhibit room;
- 6) Takes physical inventory and makes monthly report;
- 7) Performs other related functions as may be assigned from time to time.

Education Required: Bachelor's degree in Humanities/
Education

Experience Required: One year experience in occupational
safety and health promotions

CSC Eligibility: Career Service Prof./ Teachers'
Board

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Position Title: LIBRARIAN

Duties/Responsibilities:

- 1) Formulates policies and sets up library rules and regulations;
- 2) Directs and supervises the preparation of library reading materials;
- 3) Catalogs and classifies books, and indexes periodicals and other reading materials;
- 4) Assists in selecting reading and reference materials;
- 5) Requisitions books and other library materials, supplies and equipment;
- 6) Maintains statistical records and takes physical inventory of all library materials;
- 7) Maintains discipline in the library;
- 8) Performs other related functions as may be assigned from time to time.

Education Required: BS in Library Science or BSE major in Library Science

Experience Required: One year experience in library work

CSC Eligibility: Career Service Prof./Teachers' Board




Position Title: CHIEF, HEALTH CONTROL DIVISION

Duties/Responsibilities:

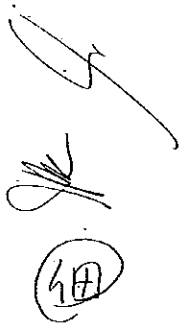
- 1) Plans, organizes, directs, coordinates and controls the technical and administrative activities of the Division staff;
- 2) Directs and administers the undertaking of researches and studies in all areas of concern and the rendering of practical services and advice to industry and labor;
- 3) Approves, directs and coordinates the specific programs of the different units of the Division;
- 4) Establishes reporting procedures and reviews and evaluates medical reports and research/investigation findings of the research staff;
- 5) Attends and reports periodic meetings of the Center;
- 6) Acts as trainer or resource person in seminars and conferences related to occupational health;
- 7) Recommends guidelines and standards on occupational health;
- 8) Performs other related functions as may be assigned from time to time.

Education Required: Doctor of Medicine

- Training:
- 1) Masters in Occupational Health or Occupational Medicine or
 - 2) Board Certified Specialist in Internal Medicine, Family Medicine or Occupational Medicine and
 - 3) Advanced Course on Occupational Health & Safety

Experience Required: Five years experience in occupational health

CSC Eligibility: RA 1080 (Board)



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Position Title: CHIEF, MEDICAL EXAMINATION SECTION

Duties/Responsibilities:

- 1) Supervises, plans, coordinates, directs and controls the various technical and administrative activities;
- 2) Evaluates technical guidelines for the diagnosis of occupational diseases in coordination with ECC;
- 3) Acts as trainer or resource person in seminars and conferences related to occupational health;
- 4) Performs other functions as may be assigned from time to time.

Education Required: Doctor of Medicine

- Training:
- 1) Advanced Course of Occupational Health
 - 2) Two (2) years training on Occupational Medicine, Family Medicine or Internal Medicine

Experience Required: Three years experience in occupational health

CSC Eligibility: RA 1080 (Board)

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Position Title: INDUSTRIAL PHYSICIAN

Duties/Responsibilities:

- 1) Performs general and special medical examinations;
- 2) Evaluates and interprets results of laboratory examinations;
- 3) Recommends treatment of patients suffering from occupational diseases and work-related illnesses to agencies concerned;
- 4) Participates in researches on occupational health;
- 5) Acts as resource person in seminars and conferences related to occupational health;
- 6) Performs other related functions as may be assigned from time to time.

Education Required: Doctor of Medicine
Training on Occupational Health
and Safety; One year clinical/
industrial base training

Experience Required: Two years experience in occupational
health

CSC Eligibility: RA 1080 (Board)



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Position Title: INDUSTRIAL NURSE

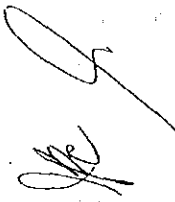
Duties/Responsibilities:

- 1) Assists the physician in the conduct of medical examination;
- 2) Performs simple medical procedures/ examinations;
- 3) Acts as resource person in seminars and conferences related to occupational health;
- 4) Participates in researches on occupational health;
- 5) Maintains medical records of workers;
- 6) Performs other functions as may be assigned from time to time.

Education Required: BS in Nursing
Training on Occupational Health
and Safety

Experience Required: One year experience in occupational health

CSC Eligibility: RA 1080 (Board)



Position Title: CHIEF, DIAGNOSTIC LABORATORY

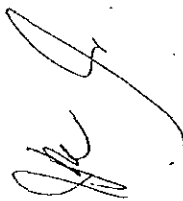
Duties/Responsibilities:

- 1) Supervises the monitoring, maintenance and calibration of laboratory equipment;
- 2) Evaluates technical guidelines for laboratory procedures in the diagnosis of occupational diseases;
- 3) Acts as trainor or resource person in seminars and conferences related to occupational health;
- 4) Performs other related functions as may be assigned from time to time.

Education Required: Doctor of Medicine
Training: 1) Occupational Health and Safety
2) Two years training in Pathology

Experience Required: Three years experience in pathology

CSC Eligibility: RA 1080 (Board)



Position Title: BACTERIA CULTURE TECHNOLOGIST

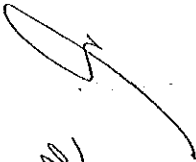
Duties/Responsibilities:

- 1) Isolates and cultures microorganisms responsible for work-related diseases;
- 2) Performs necessary procedures for contagious disease precautions;
- 3) Performs other functions as may be assigned from time to time.

Education Required: BS in Medical Technology

Experience Required: One year experience in bacteria cultivation

CSC Eligibility: RA 1080 (Board)



Position Title: CLINICAL TECHNOLOGIST

Duties/Responsibilities:

- 1) Performs laboratory examinations;
- 2) Maintains and calibrate laboratory equipment;
- 3) Prepares technical guidelines for laboratory procedures in coordination with industrial physician and nurse;
- 4) Periodically reports on laboratory supplies;
- 5) Performs other functions as may be assigned from time to time.

Education Required: BS in Medical Technology

Experience Required: One year experience in laboratory

CSC Eligibility: RA 1080 (Board)

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Position Title: X-RAY TECHNOLOGIST

Duties/Responsibilities:

- 1) Performs chest x-ray examination;
- 2) Processes chest x-ray films;
- 3) Reports periodically on supplies;
- 4) Prepares technical guidelines for radiological examinations in coordination with industrial physician and nurse;
- 5) Performs other related functions as may be assigned from time to time.

Education Required: BS or Associate in X-Ray Technology
Training on Occupational Safety
and Health (Basic Course)

Experience Required: One year experience in X-ray

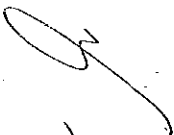
CSC Eligibility: RA 1080 (Board)

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Position Title: CHIEF, MEDICAL RESEARCH SECTION

Duties/Responsibilities:


- 1) Under general supervision, prepares work programs of the Section;
- 2) Plans and supervises the activities necessary for providing policy guidance and staff support in the conduct of researches and studies of health conditions in places of employment;
- 3) Reviews and evaluates reports activities on the result of researches/studies;
- 4) Recommends technical guidelines and standards on occupational health;
- 5) Acts as trainor or resource person in seminars and conferences related to occupational health;
- 6) Performs other related functions as may be assigned from time to time.



Education Required: Doctor of Medicine
Training : 1) Epidemiology or
Research Methodology
2) Occupational Health
and Safety



Experience Required: Three years experience in
research activities



CSC Eligibility: RA 1080

Position Title: MEDICAL RESEARCHER


Duties/Responsibilities:

- 1) Under general supervision, performs research activities of the Section on occupational health;
- 2) Prepares research/survey results and reports;
- 3) Makes studies and researches on methods of research, evaluation, presentation and dissemination of results;
- 4) Performs other related functions as may be assigned from time to time.

Education Required: any BS degree
Training on Occupational Health
and Safety

Experience Required: One year experience in research
activities

CSC Eligibility: Any appropriate civil service
eligibility.



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Position Title: CHIEF, SAFETY CONTROL DIVISION

Duties/Responsibilities:

- 1) Plans, organizes, directs, coordinates and controls the technical and administrative activities of the Division staff;
- 2) Directs and administers the undertaking of researches and studies in all areas of concern and the rendering of practical services and advice to industry and labor;
- 3) Approves, directs and coordinates the specific programs of the different units of the Division;
- 4) Establishes reporting procedures and reviews and evaluates technical reports and research/investigation findings of the research staff;
- 5) Recommends technical guidelines and standards on occupational safety;
- 6) Acts as trainor or resource person in seminars and conferences related to occupational safety;
- 7) Performs other related functions as may be assigned from time to time.

Education Required: BS in Engineering (Civil, Mechanical, Electrical, Chemical, Industrial)
Training on Occupational Safety and Health; Environmental Measurement; Laboratory Tests of Safety Devices

Experience Required: Five years experience in occupational safety

CSC Eligibility: RA 1080 (Board)



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Position Title: CHIEF, SAFETY TEST SECTION

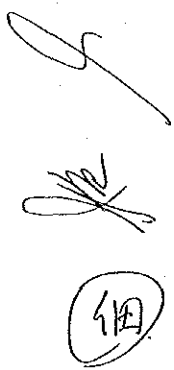
Duties/Responsibilities:

- 1) Under general supervision, plans work programs of the Section;
- 2) Supervises and coordinates safety tests and examination of personal protective devices and other hazardous machinery;
- 3) Supervises specific activities in rendering technical cooperation to POLE enforcing authorities as requested in evaluation of technical safety conditions of machinery, equipment, electrical installations, hazardous work processes, as well as personal protective devices;
- 4) Recommends technical guidelines and standards on occupational safety;
- 5) Acts as trainer or resource person in seminars and conferences related to occupational safety;
- 6) Performs other related functions as may be assigned from time to time.

Education Required: BS in Electrical/Mechanical Engineering
Training on Occupational Safety and Health; and Laboratory Tests of Safety Devices

Experience Required: Three years experience in occupational safety

CSC Eligibility: RA 1080 (Board)



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Position Title: SENIOR SAFETY ENGINEER
Safety Test Section

Duties/Responsibilities:

- 1) Supervises and conducts examination and tests of personal protective devices and other hazardous machinery;
- 2) Makes researches/studies and conducts tests for the development of standard specifications of personal protective devices applicable to Filipino workers;
- 3) Coordinates with enforcing authorities in the evaluation of technical safety conditions of workplaces, hazardous work processes and personal protective devices;
- 4) Assists DOLE policy-making authorities in standards setting and policy formulation.
- 5) Performs other related functions as may be assigned from time to time.

Education Required: BS in Mechanical/Electrical Engineering

Training on Occupational Safety and Health; and Laboratory Tests of Safety Devices

Experience Required: Two years experience in occupational safety


CSC Eligibility: RA 1080 (Board)


(12)

Position Title: JUNIOR SAFETY ENGINEER
Safety Test Section

Duties/Responsibilities:

- 1) Performs examination and tests of personal protective devices and other hazardous machinery;
- 2) Assists in the studies/researches for the development of standard specifications for personal protective devices applicable to Filipino workers;
- 3) Assists in providing services to enforcing authorities in safety evaluation of personal protective devices, machinery, equipment and electrical installations;
- 4) Assists Section cooperation with DOLE policy-making authorities formulate safety rules on technical safety and personal protection;
- 5) Performs other related functions as may be assigned from time to time.

 Education Required: BS in Mechanical/Electrical :
Engineering
Training on Occupational Safety
and Health

 Experience Required: One year experience in occupational
safety

CSC Eligibility: RA 1080 (Board)

(14)

Position Title: CHIEF, SAFETY RESEARCH & SURVEY SECTION

Duties/Responsibilities:

- 1) Under general supervision, prepares work programs of the Section;
- 2) Plans, and supervises the activities necessary for providing policy guidance and staff support in the conduct of researches and surveys of safety conditions in places of employment;
- 3) Supervises and conducts assistance to DOLE policy-making authorities in standard-setting and policy formulation;
- 4) Reviews and evaluates reports activities on the results of surveys/researches;
- 5) Coordinates the activities in cooperating with DOLE enforcing authorities in safety inspection of the general safety conditions in places of employment as requested;
- 6) Acts as trainor or resource person in seminars and conferences related to occupational safety.
- 7) Recommends technical guidelines and standards on occupational safety;
- 8) Performs other related functions as may be assigned from time to time.

Education Required: BS in Engineering (Mechanical, Civil, Electrical, Chemical, Industrial)
Training on Occupational Safety and Health; Work Environment Measurement; and Research Methodology

Experience Required: Three years experience in research activities.

CSC Eligibility: RA 1080 (Board)

Position Title: SENIOR SAFETY ENGINEER (RESEARCHER)
Safety Research & Survey Section

Duties/Responsibilities:

- 1) Under general supervision, exercises specific supervision in the research/survey activities of the Section on safety conditions in places of employment;
- 2) Supervises preparation of research/survey results and reports;
- 3) Makes studies and researches on methods of research, evaluation, presentation and dissemination of survey results;
- 4) Renders assistance to enforcing authorities as requested in evaluation of general safety conditions of workplaces;
- 5) Participates as requested by DOLE policy-making authorities in standards setting and policy formulation on occupational safety;
- 6) Performs other related functions as may be assigned from time to time.

Education Required: BS in Engineering (Mechanical, Civil; Electrical, Chemical, Industrial) Training on Occupational Safety and Health; Working Environment Measurement and Research Methodology

Experience Required: Two years experience in research activities

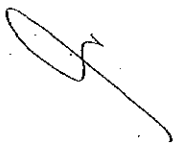
CSC Eligibility: RA 1080 (Board)


(1A)

Position Title: JUNIOR SAFETY ENGINEER (RESEARCHER)
Safety Research & Survey Section

Duties/Responsibilities:

- 1) Participates in the research/survey activities of the Section on safety conditions in places of employment;
- 2) Helps in the preparation of survey results and reports;
- 3) Participates in studies/training on methods of research, evaluation of results, reporting and dissemination;
- 4) Assists in providing support services to enforcing authorities as requested, in evaluation of general safety conditions of workplaces;
- 5) Assists in the activities to cooperate with policy-making authorities in the formulation of safety rules, as requested;
- 6) Performs other related functions as may be assigned from time to time.

 Education Required: BS in Engineering (Mechanical, Electrical, Civil, Chemical, Industrial) Training on Occupational Safety and Health

 Experience Required: One year experience in research activities

CSC Eligibility: RA 1080 (Board)



Position Title: CHIEF, ENVIRONMENTAL CONTROL DIVISION.

Duties/Responsibilities:

- 1) Plans, organizes, directs, coordinates and controls the technical and administrative activities of the Division staff;
- 2) Directs and administers the undertaking of researches and studies in all areas of concern and the rendering of practical services and advice to industry and labor;
- 3) Approves, directs and coordinates the specific programs of the different units of the Division;
- 4) Establishes reporting procedures and reviews and evaluates technical reports and research/investigation findings of the research staff;
- 5) Coordinates with such agencies in the execution of plant surveys or visits for the purpose of collection of data and environmental analysis of the work environment;
- 6) Confers with regulatory agencies to discover plant environmental quality standards, industrial practices and new developments in problem abatement;
- 7) Recommends technical guidelines and standards on working environment measurement to BWC and ECC;
- 8) Acts as trainer or resource person in seminars and conferences related to working environment;
- 9) Performs such other functions as may be assigned from time to time.

Education Required: BS in Chemical Engineering/Chemistry
Advanced training on Occupational Health and Safety; and Working Environment Measurement

Experience Required: Five years experience in environmental control

CSC Eligibility: RA 1080 (Board)

Position Title: RESEARCHER AIDE/SAFETY TEST AIDE



Duties/Responsibilities:

- 1) Under immediate supervision, renders assistance in the safety research and survey activities/ safety examination and tests of personal protective devices and other hazardous machinery;
- 2) Assists in maintenance, calibration and testing of equipment;
- 3) Performs other duties for the efficient conduct of surveys and researches;
- 4) Performs other related functions as may be assigned from time to time.

Education Required: Completed 2nd year Engineering

Experience Required: None required

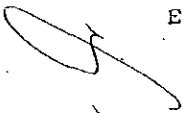
CSC Eligibility: None required






Position Title: CHIEF, WORK ENVIRONMENT SECTION

Duties/Responsibilities:

- 1) Plans, programs and implements team and individual research towards the recognition and evaluation of environmental factors arising in the workplace which may cause sickness or harm to workers;
- 2) Studies, identifies and alerts industry and labor to potential health and safety hazards;
- 3) Detects, identifies and monitors industrial operations hazardous to health;
- 4) Investigates, interprets and coordinates the various facets of factors and stresses of industrial origin;
- 5) Recommends technical guidelines and standards on working environment measurement;
- 6) Acts as trainor or resource person in seminars and conferences related to working environment;
- 7) Performs such other functions as may be assigned from time to time.

 Education Required: BS in Chemical Engineering/Chemistry Training on Occupational Safety and Health; and Working Environment Measurement

 Experience Required: Three years experience in environmental control

 CSC Eligibility: RA 1080 (Board)

Position Title: SENIOR WORK MEASUREMENT SPECIALIST

Duties/Responsibilities:

- 1) Under general supervision, conducts researches and studies on problems related with exposure to operational processes and raw materials, chemical and physical agents such as dusts, fumes, vapors, noise, illumination, etc.;
- 2) Determines collection methods to be employed in research projects and studies;
- 3) Supervises collection, sampling, measurement of environmental contaminants and evaluates the findings of the laboratory with respect to the analysis of the different occupational exposures; prepares and submits research reports and recommendations;
- 4) Conducts studies to determine effects of environmental contaminants at different exposure levels to the efficiency and work behavior of workers;
- 5) Participates in the development and design of exhaust systems and other control systems to reduce occupational exposures;
- 6) Performs such other related functions as may be assigned from time to time.

Education Required: BS in Chemical Engineering/Chemistry
Training on Occupational Safety and Health; and Working Environment Measurement


Experience Required: Two years experience in environmental control


CSC Eligibility: RA 1080 (Board)


Position Title: JUNIOR WORK MEASUREMENT SPECIALIST

Duties/Responsibilities:

- 1) Performs studies and researches on problems related to operational processes and raw materials, chemical and physical agents such as dusts, fumes, vapors, noise, illumination, etc.;
- 2) Participates in the collection and analysis of environmental contaminants to determine degrees of exposure of workers;
- 3) Participates in studies to determine effects of environmental contaminants at different exposure levels to the efficiency and work behavior of workers;
- 4) Maintains and calibrates measuring equipment under the supervision of the Sr. Work Measurement Specialist;
- 5) Performs such other related functions as may be assigned from time to time.

 Education Required: BS in ^{Chemical} Engineering/Chemistry
Training on Occupational
Safety and Health; and Working
Environment Measurement

 Experience Required: One year experience in
environmental control

 CSC Eligibility: RA 1080 (Board)

Position Title: CHIEF, INDUSTRIAL HYGIENE SECTION

Duties/Responsibilities:

- 1) Under general supervision, plans, programs and implements team and individual research towards the control of environmental factors arising in the workplace which may cause sickness, discomfort and inefficiency among workers;
- 2) Supervises laboratory experiments and tests of respiratory protective devices for compliance with safety standards and other relevant requirements;
- 3) Provides consultative services in the design of industrial plants on the standpoint of environmental pollution and industrial hygiene;
- 4) Recommends technical guidelines and standards on industrial hygiene;
- 5) Acts as trainer or resource person in trainings and seminars related to working environment;
- 6) Maintains cooperation with the other Section in the effective implementation of projects planned on Division level;
- 7) Performs such other related functions as may be assigned from time to time.

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Education Required: BS in Engineering
Training on Occupational Safety
and Health; and Working Environment
Measurement

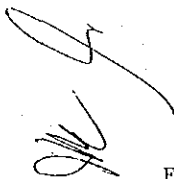
Experience Required: Three years experience in
environmental control

CSC Eligibility: RA 1080 (Board)

Position Title: SENIOR INDUSTRIAL HYGIENE ENGINEER

Duties/Responsibilities:

- 1) Under general supervision, conducts engineering researches towards the control of environmental factors arising in the workplace;
- 2) Performs laboratory experiments and tests of respiratory protective devices for compliance with safety standards and other relevant requirements;
- 3) Makes studies and coordinates with other government agencies in the development of locally manufactured respiratory protective devices;
- 4) Evaluates and tests the performance of industrial ventilation systems;
- 5) Performs studies, researches and field investigations as basis for the development of standards and guidelines in controlling hazards in workplaces;
- 6) Performs such other functions as may be assigned from time to time.



Education Required: BS in Engineering
Training on Occupational Safety
and Health; and Working Environment
Measurement



Experience Required: Two years experience in environmental control

CSC Eligibility: RA 1080 (Board)

Position Title: JUNIOR INDUSTRIAL HYGIENE ENGINEER

Duties/Responsibilities:

- 1) Assists in conducting engineering researches towards the control of environmental factors arising in the workplace;
- 2) Performs laboratory experiments and tests of respiratory protective devices for compliance with safety standards and other relevant requirements;
- 3) Assists in the development of standards and guidelines in controlling hazards in workplaces;
- 4) Assists in the development of locally manufactured respiratory protective devices;
- 5) Performs such other functions as may be assigned from time to time.

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Education Required: BS in Engineering
Training on Occupational Safety
and Health

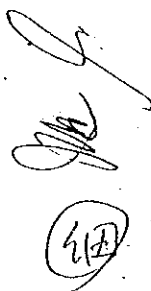
Experience Required: One year experience in
environmental control

CSC Eligibility: RA 1080 (Board)

Position Title: Work Measurement Aide/ Industrial Hygiene Aide

Duties/Responsibilities:

- 1) Under immediate supervision, renders assistance in the laboratory tests conducted on materials, equipment and other devices;
- 2) Asists in maintenance, calibration and testing of laboratory instruments and equipment;
- 3) Performs all other duties incidental to the efficient operation of the laboratory.

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Education Required: At least two years college in Engineering or related courses

Experience Required: One year experience in maintenance work

CSC Eligibility : Appropriate civil service eligibility

TRAINING AND PUBLIC INFORMATION DIVISION

- 1) Formulates long term development plans and detailed programs and/or projects with respect to training and public information on occupational safety and health.
- 2) Organizes and conducts training programs for administrative personnel, training staff of the Center, DOLE personnel, medical officers of social security institutions, and technical personnel of government and private sector agencies involved on occupational safety and health.
- 3) Organizes, conducts and coordinates conventions and conferences on the latest trends, practices or technology on occupational safety and health, with the participation of local and foreign experts.
- 4) Documents and publishes studies conducted by the various Divisions and relevant materials for the use of trainees of government and private institutions concerned with occupational safety and health; produces and reproduces audiovisual materials related to occupational safety and health.
- 5) Coordinates with the other Divisions of the Center on matters related to training and public information activities.
- 6) Performs such other functions as may be assigned by the Board.

3. TRAINING COORDINATION SECTION

- 1) Coordinates with all the Divisions of the Center as well as other agencies to plan, formulate and implement training program activities.
- 2) Organizes and conducts specific training programs for administrative personnel, training staff of the Center, enforcement officers of DOLE and medical officers of social security institutions.

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- 9) Assists in the training of occupational health and paramedical personnel in cooperation with the Training and Public Information Division.
- 10) Provides assistance to the professional and academic sectors in the field of occupational health.
- 11) Performs other functions as may be assigned by the Board.

A. MEDICAL EXAMINATION SECTION

- 1) Conducts pre-employment and periodic medical examinations for workers either at the Center or at the worksite upon request of the employers.
- 2) Conducts special medical examinations for workers especially those exposed to health hazards upon request of the employer.
- 3) Formulates and issues technical guidelines for the diagnosis of occupational diseases in coordination with ECC.
- 4) Assists in the investigation for causes of outbreaks of occupational diseases upon request of the concerned sector.
- 5) Maintains linkages with ECC and other medical centers for the prevention, treatment and rehabilitation of workers with occupational diseases and work-related contingencies.
- 6) Performs other functions as may be assigned by the Board.

B. DIAGNOSTIC LABORATORY

- 1) Provides the following laboratory services for the diagnosis of diseases.
 - a. Chest Radiography
 - b. Hematology
 - c. Microbiology
 - d. Immunology
 - e. Blood Chemistry
 - f. Toxicology including heavy metals, organic solvents and others

- 4) Sets technical guidelines for laboratory procedures in the diagnosis of occupational diseases and work-related contingencies in coordination with ECC.

C. MEDICAL RESEARCH SECTION

- 1) Compiles and maintains records of all workers with occupational diseases and work-related contingencies.
- 2) Analyzes and evaluates basic data on occupational health.
- 3) Conducts surveys and studies on occupational health in coordination with ECC, BWC and other research agencies.
- 4) Publishes information on occupational health in coordination with the Training and Public Information Division.

SAFETY CONTROL DIVISION

- 1) Conducts studies and researches in places of employment with emphasis on hazardous enterprises.
- 2) Provides technical cooperation to Regional Labor Offices in its enforcement and survey activities, as requested.
- 3) Cooperates with policy-making authorities in the improvement or upgrading of safety rules and regulations and the formulation of new rules, as well as in the surveys/researches of workplaces.
- 4) Conducts studies and tests of personal protective and other safety devices and hazardous machineries.
- 5) Provides technical expertise and advice to BWC on standards setting and policy formulation on occupational safety.



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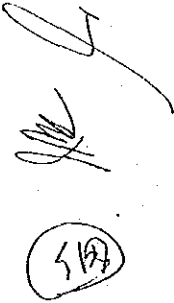
- 6) Assists in the training and public information activities of the Center in coordination with the Training and Public Information Division.

A. SAFETY TEST SECTION

- 1) Performs laboratory tests and examinations of personal protective and other safety devices, as requested by DOLE and private establishments.
- 2) Provides technical cooperation to the Regional Labor Offices upon request in its survey and inspection/evaluation activities involving personal protective devices, work processes and technical safety conditions of machines, equipment, electrical installations, etc.
- 3) Assists in the training and public information activities of the Center.
- 4) Provides technical expertise and advice to BWC on standards setting and policy formulation on occupational safety.

B. SAFETY RESEARCH AND SURVEY SECTION

- 1) Conducts researches and surveys involving safety conditions obtaining in places of employment.
- 2) Provides technical cooperation to Regional Labor Offices upon request to facilitate its inspection and survey activities involving the general safety conditions of workplaces.
- 3) Assists in the training and public information activities of the Center.
- 4) Cooperates with policy-making authorities in upgrading or amending existing safety rules and regulations.



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ENVIRONMENTAL CONTROL DIVISION

- 1) Conducts surveys of the working environment.
- 2) Performs laboratory experiments and tests of respiratory protective devices.
- 3) Develops guidelines and standards on working environment and respiratory protective devices in coordination with BWC and ECC.
- 4) Conducts calibration on working environment measurement equipment.
- 5) Maintains a chemical laboratory to provide support services to enforcing agents.
- 6) Assists in the training and public information activities of the Center in coordination with the Training and Public Information Division.
- 7) Performs other functions as may be assigned by the Board.

A. WORK ENVIRONMENT SECTION



- 1) Conducts environmental surveys of workareas to determine possible presence of harmful environmental contaminants from the use of chemical substances and physical factors like noise, extremes of temperature, etc.
- 2) Conducts studies on the toxic effects of chemical substances used in industries; the toxicities of new chemicals and the safe exposure levels for toxic materials.
- 3) Develops technical guidelines in dealing with toxic chemicals and other harmful physical agents.
- 4) Maintains a chemical laboratory to provide support services to enforcing agents.
- 5) Compiles and maintains records of working

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environment measurements.

B. INDUSTRIAL HYGIENE SECTION

- 1) Conducts studies, researches and field investigations in the development of technical guidelines and standards on working environment.
- 2) Performs laboratory experiments and tests of respiratory protective devices.
- 3) Evaluates and tests the performance of industrial ventilation systems.
- 4) Coordinates with government and private agencies in the development of locally manufactured respiratory protective devices.
- 5) Cooperates with the other Section in the effective implementation of projects planned on Division level.

4. 協力分野の現状と問題点

日本側としては、第1次事前調査団による調査結果に基づき、本件プロジェクトの協力分野及び各分野に対する技術協力の内容について、後述のとおり、基本的な構想として取りまとめた。

今回の事前調査団としては、分野別年次別技術移転計画についての日本側としての基本的な考え方を示したが、次回の実施協議チーム派遣時にフィリピン側と実施協議チームとの間で円滑に合意をみて、技術移転計画が策定されることを期する。

上述の基本構想における部門別年次別技術協力（移転）計画につき英訳資料（表-2 日本側提案・暫定協力実施計画）を作成のうえ、フィリピン側に提供した。

これに対し、フィリピン側から、次に掲げる質問、希望がなされた。

- (1) X線検査技師及び臨床検査技師に対する技術移転も行ってほしい。
- (2) 健康管理部門の長期日本人専門家は医師である関係上、1年程度で交代になることが予想されるので、派遣される医師（日本人専門家）の専門に見合った内容、分野（例えば、じん肺）について技術移転して欲しい
- (3) じん肺、工業中毒、結核等についての技術移転を期待している。
- (4) Safety assessment と safety diagnosis のそれぞれの概念及び両者間の相違について説明を得たい。

また、本調査団から、上述の質問等に対し応答したが、最終的にはコントララス ECC 事務局長から、フィリピン側として counter proposal を出したいとの提案があった。本調査団としても、これを了解のうえ、その counter proposal に対し、日本側での検討結果に基づき、コメントを出す旨約した。

フィリピン側から提出のあった counter proposal は表-3 比側提案・暫定協力実施計画の通りである。

日本側の proposal（表-2）とフィリピン側の counter proposal（表-3）とを比較して、両者間の相違をチェックした結果は、次の通りである。

(1) 「健康管理」部門

日本側が、データ収集、基礎調査、健診システムの開発等、段階的に積み上げていこうとの発想に立っているのに対し、フィリピン側は、基本的には、年次別に、じん肺、金属、有機溶剤及び化学物質の順で技術移転を期待しているとみられる。

(2) 「安全管理」部門

日本側が、業種別に事前安全評価（Safety assessment）及び安全診断（Safety diagnosis）の技術移転を重視した考え方になっているのに対し、フィリピン側は、電気、機械、建設及び化学安全についてのカウンターパートへの技術移転とともに、ボイラー・クレーン検査技術並びにプレス機械等の安全装置及び安全帽等の試験技術の習得を期待しているとみられる。

(3) 「環境管理」部門

日本側が、年次別に、粉じん、金属、騒音等の項目毎に測定及び環境改善技術を移転し、呼吸用保護具に関する検定制度についてはノウハウを移転するにとどめる考え方であるのに対し、フィリピン側は、環境測定システム及び呼吸用保護具試験方法の開発、確立及び試行についての技術移転とともに、粉じん、金属、有機溶剤その他化学物質及び物理的要因について協力年度当初における集中的な技術移転を期待しているとみられる。

(4) 「研修広報」部門

日本側が、当初2年間で準備のうえ、3年目以降から行政官研修を先行させて研修を実施するとともに、広報活動も協力期間の後半から行うこととしているのに対し、フィリピン側は、第1年目から毎年研修を行うこととし、特にじん肺、健康障害に関する医師、臨床検査技師等に対する研修を重視しているが、労働基準監督官に対する研修を予定しておらず、反面、SOPIその他関係団体による研修の実施を行うこととしている。

上述の比較結果から、協力分野及びその内容について、日本側が考えていることと、フィリピン側が期待していることとの間には、かなりのかい離があるようにも思われる。今後、技術協力を実施する過程で、最も重要な点であるので、今後、国内委員会において十分、技術的な検討を行い、日本側の考え方及び方針を固めて、いつでもフィリピン側に対し説明できる準備を整えておくことが必要とされる。

表一 2 日本側提案・暫定協力実施計画

Tentative Implementation Schedule
of Japan Technical Cooperation

2-1

Health Control Division	
1st year (1988)	Conducting the following activities for preparation of technical cooperation for 2nd year and beyond. 1. Filing of existing data. 2. Survey for conducting medical examination (large scale enterprises). 3. Preparation for establishment of medical examination system.
2nd year (1989)	Conducting the following activities in addition to the activities of 1st year. 1. Fact-finding survey (medium & small scale enterprises). 2. General medical examination & analysis. 3. Cooperation for preparation of training textbooks & teaching materials. 4. Compiling of domestic and overseas medical information.
3rd year (1990)	1. General medical examination & analysis. 2. Specialized medical examination & analysis. 3. Compiling of domestic and overseas medical information. 4. Other fact-finding surveys. 5. Cooperation to industrial physicians.
4th year (1991)	Conducting the following activities in addition to the activities of 3rd year. 1. Compiling data for consolidation of project. 2. Guidance & consultation to individual enterprises.
5th year (1992)	Continuing the activities of 4th year & evaluation of the achievements

*Cooperation to Training & Public Information Division will be carried out from the professional view point in line with the implementation schedule above

Safety Control Division	
1st year (1988)	<p>Conducting the following activities for preparation of technical cooperation for the 24th year and beyond.</p> <ol style="list-style-type: none"> 1. Filing of existing data. 2. Survey on actual condition of safety control in enterprises. 3. Compilation and analysis of safety control data. 4. Preparations in the center for establishment of improved safety control system.
2nd year (1989)	<p>Conducting the following activities in addition to the activities of 1st year.</p> <ol style="list-style-type: none"> 1. Preparation of yearly schedule for prevention of occupational accident. 2. Preparation of occupational accident survey manual (development of data collection system and data analysis system). 3. Safety assessment (preparation of guidelines and execution for chemical industry). 4. Safety diagnosis (preparation of guidelines and on the spot diagnosis for chemical industry). 5. Examination & testing of hazardous machines etc. (preparation of exam. guideline for personal safety gears such as safety belts and safety devices for presses etc. & actual exam. and testing of gears and machines). 6. Cooperation to Training & Public Information Division.
3rd year (1990)	<ol style="list-style-type: none"> 1. Preparation of occupational accident survey manual (for accident by machines electric shock). 2. Preparation of safety assessment guidelines & execution for construction work. 3. Preparation of safety diagnosis guidelines & on the spot diagnosis for construction work. 4. Preparation of examination guidelines & execution for crane, construction machines etc. 5. Cooperation to Training & Public Information Division.
4th year (1991)	<ol style="list-style-type: none"> 1. Preparation of occupational accident survey manual (for accidental falls, flying and falling objects). 2. Preparation of safety assessment guidelines & execution for factories producing electrical appliances & machinery. 3. Preparation of safety diagnosis guidelines & on the spot diagnosis for factories producing electrical appliances & machinery. 4. Preparation of examination guidelines & execution for boilers, press machines. 5. Cooperation to Training & Public Information Division.
5th year (1992)	<ol style="list-style-type: none"> 1. Preparation of occupational accident survey manual (collapse of temporary construction, landslides etc.). 2. Preparation of safety assessment guidelines & execution for factories producing metal products & machinery. 3. Preparation of safety diagnosis guidelines & on the spot diagnosis for factories producing metal products & machinery. 4. Preparation of examination guidelines & execution for press machines, wood working machines etc. 5. Cooperation to Training & Public Information Division.

Environment Control Division	
1st year (1988)	<p>Conducting the following activities for preparation of technical cooperation for 2nd year beyond.</p> <ol style="list-style-type: none"> 1. Filing of existing data. 2. Investigation of actual conditions in large scale enterprises. 3. Preparation for establishment of working environment measurement system.
2nd year (1989)	<p>Conducting the following activities in addition to the activities of 1st year</p> <ol style="list-style-type: none"> 1. Survey of actual working environment in medium & small scale enterprises. 2. Working environment measurement & analysis (mainly in dusty workplaces). 3. Preparation of measurement manual of dust. 4. Guidance for improvement in working environment & analysis (in dusty workplaces).
3rd year (1990)	<ol style="list-style-type: none"> 1. Working environment measurement & analysis (mainly in metal factories). 2. Preparation of measurement manual in metal factories. 3. Preparation of guidelines for design and maintenance of local exhaust ventilation. 4. Guidance for improvement in working environment & analysis (in chemical workplaces).
4th year (1991)	<ol style="list-style-type: none"> 1. Working environment measurement & analysis (mainly in private sector). 2. Preparation of working environment measurement manual (noise etc.). 3. Preparation of guidelines for improvement working environment control (evaluation of measurement). 4. Preparation of guidelines for design and maintenance of ventilation equipment. 5. Transfer know-how of official approval system of dust masks.
5th year (1992)	<ol style="list-style-type: none"> 1. Working environment measurement & analysis (in private sector). 2. Preparation of guidelines for improvement of working environment control (improvement plan). 3. Transfer know-how of official approval system of gas masks. 4. Establishment of working environment measurement system. 5. Establishment of official approval system of safety gears. <p>Cooperation to Training & Public Information Division will be carried out from the professional view point in line with the implementation schedule above.</p>

*Cooperation to Training & Public Information Division will be carried out from the professional view point in line with the implementation schedule above

Training and Public Information Division	
1st year (1988)	<ol style="list-style-type: none"> 1. Preparation of middle-term plans for training of government administrators. 2. Preparation of training curriculum. 3. Filing and compiling existing data & preparation of plans for compiling teaching materials. 4. Transfer of technics on audio-visual teaching materials (color slides, video tapes etc.) production & teaching materials and P.R. document production. 5. Preparation of middle-term plans for P.R. information.
2nd year (1989)	<ol style="list-style-type: none"> 1. Preparation of instructors' manuals, textbooks, teaching materials. 2. Production of audio-visual teaching materials (color slides, video tapes etc.) for training of government administrators. 3. Experimental training and consolidation of training programmes of government administrators. 4. Special events to promote the project.
3rd year (1990)	<ol style="list-style-type: none"> 1. Training of government administrators (conducting part of training programme). 2. Preparation of instructors' manuals and textbooks for training of private sector. 3. Production of audio visual aids (colour slides, video films etc.) for training private sector. 4. Experimental training and consolidation of training programmes for training of private sector prescribed by laws and regulations.
4th year (1991)	<ol style="list-style-type: none"> 1. Training of government administrators (conducting entire training programmes). 2. Training for private sector prescribed by laws and regulations (conducting part of training). 3. Production & utilization of P.R. documents. 4. Special events to promote the project. 5. Research on demands for seminars.
5th year (1992)	<ol style="list-style-type: none"> 1. Training of government administrators & private sector prescribed by laws and regulations. 2. Experimental seminars. 3. Evaluation of training & Review of curriculums and teaching materials. 4. Evaluation of P.R. activities.

表-3 比例提案・暫定協力実施計画

TENTATIVE IMPLEMENTATION SCHEDULE OF
JAPANESE TECHNICAL COOPERATION

3-1

I. Health Control Division

1) 1st Year (1988)

- a. Filing and analysis of existing data (especially pulmonary diseases).
- b. Training of physicians (counterparts and others) on pneumoconiosis by a long-term expert.
- c. Training of physicians (counterparts and others) on health impairment caused by chemicals by a short-term expert.
- d. Training of x-ray technicians (counterpart and others) by a short-term expert.
- e. Training of medical technologists (counterparts only) on medical tests for health impairment caused by chemicals by a short-term expert.
- f. Fact-finding survey on pneumoconiosis.

2) 2nd Year (1989)

- a. Training of physicians (counterparts and others) on complications of pneumoconiosis, such as pulmonary tuberculosis, secondary bronchitis, etc., complicated by pneumoconiosis by a long-term expert.
- b. Training of medical technologists (counterparts and others) on pulmonary function test, tuberculosis bacilliculture test etc., by a short-term expert.

3) 3rd Year (1990)

- a. Training of physicians (counterparts and others) on Health impairment caused by metals by a long-term expert.
- b. Training of medical technologist on analysis of blood and urine, and other medical tests by a short-term expert.
- c. Fact-finding survey on health impairment caused by metals.

4) 4th Year (1991)

- a. Training of physicians (counterparts and others) on health impairment caused by organic solvents by a long-term expert.
- b. Training of medical technologists (counterparts and others) on hepatic function test, neuromedical test and other medical tests by a short-term expert.
- c. Fact-finding survey on health impairment caused by organic solvents.

5) 5th Year (1992)

- a. Training of physicians (counterparts and others) on health impairment caused by other chemical substances by a long-term expert.
- b. Training of medical technologists (counterparts and others) on necessary medical tests on health impairment caused by other chemical substances by a short-term expert.
- c. Fact-finding survey on health impairment caused by other chemical substances.

II. Safety Control Division

1) 1st Year (1988)

- a. Filing and analysis of existing data.
- b. Training of counterparts on examination of boilers and pressure vessels.
- c. Training of counterparts on testing of safety devices and hazardous machines.
- d. Survey on actual conditions of general safety control in enterprises and preparation of guidelines on general safety control.

2) 2nd Year (1989)

- a. Preparation of yearly program for prevention of occupational accident.
- b. Development of data collection and analysis system.
- c. Training of counterparts on electric safety.
- d. Survey on electrical safety in enterprises and preparation of guidelines on electrical safety.
- e. Preparation of testing guidelines for personnel protective safety devices such as helmet and safety belt.

3) 3rd Year (1990)

- a. Preparation of occupational accident survey manual (for accidents by machines, hand tools and electrical shock).
- b. Training of counterparts on machine safety.
- c. Survey on machine safety in enterprises and preparation of guideline on machine safety.
- d. Preparation of testing guidelines for boilers and pressure vessels.

4) 4th Year (1991)

- a. Preparation of occupational accident survey manual (for accident falls, flying, and falling objects).
- b. Training of counterparts on construction safety.
- c. Survey on construction safety in enterprises and preparation of guidelines on construction safety.
- d. Preparation of testing guidelines for safety devices of press machines, shears and wood working machines.

5) 5th Year (1992)

- a. Preparation of occupational accident survey manual (for collapse of scaffolding, hoisting apparatus, etc.)
- b. Training of counterparts on chemical safety.
- c. Survey on chemical safety in enterprises and preparation of guidelines on chemical safety.
- d. Preparation of testing guidelines for cranes.

III. Environmental Control Division

- 1) 1st Year (1988)
 - a. Training of counterparts by five (5) groups (dust, metals, organic solvents, other chemicals and physical factors) on working environment measurement (including on the job training).
 - b. Training of counterparts on testing of respirators.
- 2) 2nd Year (1989)
 - a. Preparation of guidelines and forms for working environmental measurement.
 - b. Fact-finding survey on working environment.
 - c. Preparation of guidelines for testing of respirators.
- 3) 3rd Year (1990)
 - a. Trial and review of the guidelines and forms for working environment measurement.
 - b. Training of counterparts on working environment evaluation and improvement.
 - c. Actual testing of respirator.
- 4) 4th Year (1991)
 - a. Start of actual working environment measurement.
 - b. Analysis of problems on working environment.
 - c. Preparation of evaluation system of working environment.
- 5) 5th Year (1992)
 - a. Training of counterparts on personnel monitoring.
 - b. Trial and review of evaluation system of working environment.

IV. Training and Public Information Division

1) 1st Year (1988)

- a. Preparation of training program and curriculum for government staff.
- b. Filing and analysing existing data and curriculum in private sectors.
- c. Having existing seminars by POIMA, SOPI etc. (every year).
- d. Various convention of SOPI, POIMA, OHHAP and other related associations (every year)
- e. Preparation of training program and curriculum for private sector.
- f. Training of counterparts on audio-visual teaching equipment.
- g. Starting preparation of instructors manuals, textbooks and other teaching materials.
- h. Training of radiologists on pneumoconiosis and complications.
- i. Training of x-ray technicians on pneumoconiosis.

2) 2nd Year (1989)

- a. Preparation of instructor's manuals, textbooks and other teaching materials.
- b. Production of audio-visual teaching materials.
- c. Training of government staff (every year).
- d. Training of industrial physicians on pneumoconiosis and complications.
- e. Training of medical technologists on pneumoconiosis and complications.
- f. Preparation of printing materials to promote the projects.
- g. Propaganda to promote the project (every year).

3) 3rd Year (1990)

- a. Preparation of instructor's manuals, textbooks and other teaching materials.
- b. Preparation of audio-visual teaching materials.
- c. Training of industrial physicians on health impairment caused by metals.
- d. Training of medical technologists on health impairment caused by metals.
- e. Training of other private sector (based on the Occupational Safety and Health Standards) (every year).
- f. Publication of journals, (every year).

3-5

4) 4th Year(1991)

- a. Preparation of advanced training of private sector.
- b. Training of industrial physicians on health impairment caused by organic solvents.
- c. Training of medical technologists on health impairment caused by organic solvents.

5) 5th Year (1992)

- a. Evaluation of training and review of curriculum, textbooks and other teaching materials.
- b. Advanced training of private sector.