

INT/99/K02

**PROJECT PROGRAMME FOR PEREZ-GUERRERO TRUST  
FUND FOR ECONOMIC AND TECHNICAL COOPERATION  
AMONG DEVELOPING COUNTRIES OF GROUP OF 77**

**Final Report on the Implementation of "Technical Assistance based on the  
Regional Approach in the Field of Standardization, Metrology and Quality  
Control among Developing Countries"**

**Committee for Standardization of the DPR of Korea**

**Pyongyang**

The committee of experts of Perez-Guerrero trust fund (PGTF) considered a proposal For a PGTF input to the project “Technical Assistance based on the Regional Approach in the Field of Standardization, Metrology and Quality Control among Developing Countries” Presented by the Government of the Democratic People’s Republic of Korea and recommended that 25,000 \$ was allocated to the Project in 2000 year.

A sub-contract was concluded between the government of DPRK and the Committee for standardization of DPRK for the implementation of the project “Technical Assistance based on the Regional Approach in the Field of Standardization, Metrology and Quality Control among Developing Countries”

This report covers the activity related to the implementation of the project of PGTF and provides its account.

## **1. Background**

Today the developing countries have a deep interest in the works of standardization, metrology and quality control and urgently require the guarantee of conformity based on the principle of collective self-reliance to meet the need of the development of national economy and the expansion of trade market.

From this realistic requirement, the Standardization Committee of DPRK intended to make a peculiar and real contribution to the establishment of the independent and national economy and the development of standard, metrology and quality control, thus developing the south-south cooperation on the principle of collective self-reliance.

The present project aims at establishing the system of standard, metrology and quality control suited to the characteristics of developing countries and realizing the technical regulation of standard and metrology, conformity guarantee of certification system and authentication of research institutions to eliminate the technical barriers in the trade.

The execution of this project will give assistance to the completion of national systems of standard and metrology in Laos and Cambodia by means of organizing the training course for the domestic personnel necessary the establishment of the system of standard and metrology and also provide the conformity guarantee in the standardization, metrology, verification, certification and environment management based on the regional approach to eliminate the technical barriers in the trade by organizing the training course for the personnel in the field of standard and metrology in Nepal and Bangladesh in keeping with the development of global economy and trade.

The object of this project is to enable the beneficiaries to establish their own system of standard, metrology and quality control and to supply the personnel

training and material and technical assistance through the regional approach and cooperation.

## **2. Activities for the implementation of Project**

The government of DPRK appointed Mr. Kim Chang Ryop, a person of the Ministry of Foreign Affairs as a project coordinator and treasurer and Mr. Jo Chun Hui and Mrs. Pak Mu Song as the responsible consultants and organized the Working Group for implementing the project under the guidance of Ministry of Foreign Affairs.

The working Group appointed 4 consultants respectively in each field with rich experience and practical knowledge for the technical and practical preparation.

First of all, the Working Group prepared the teaching documents; 6 papers for standardization and 7 papers and 8 guides for metrology for the personal training in Laos and Cambodia needed to establish the well-organized national system of standard and metrology.

In addition, the Working Group prepared 6 and 7 papers for lectures respectively in the fields of standard and metrology for the personnel training in Nepal and Bangladesh and provided the material and technical conditions for the experimental practice including the training rooms according to the state plan.

On the completion of the training preparation for the personnel training in Laos and Cambodia, the training delegation composed of Ri Sin Sok and Ri Man Ho, senior officers and Kim Kyong Ho, officer of Standardization Committee was dispatched to Laos and Cambodia.

The delegation visited the Science, Technology and Environment Agency of Laos from 16 to 25, August, 2000 and organized the training course for 3 state and administrative personnel respectively in the fields of standard and metrology including Mr. Sisomphet NHOYBOUAKONG, deputy director general of the Department of Intellectual Property, Standardization and Metrology for 5 days.

The delegation also visited the Ministry of Industry, Mine and Energy of the kingdom of Cambodia from 26, August to 3, September, 2000 and organized the training course for 5 days for 15 personnel in the field of Standard including Mr. ping Silay, Deputy Director of the Department of Industrial Techniques and 63 personnel from 24 provinces and cities in the whole country including Mr. Kadeb, Director of the Department of Metrology.

The delegation supplied one computer (Pentium 2) to Laos so as to facilitate the collection and maintenance of information in the field of standard and metrology and transferred 6 kinds of 24 guides and papers for lectures in the field of standard and 8 kinds of 16 guides and 8 kinds of 32 papers for lectures in the field of metrology.

The delegation also transferred 6 kinds of 48 papers for lectures in the field

of standard and 8 kinds of guides to the calibration and 74 papers for lectures.

The training course dealt with the infrastructure and practical problems arising in the establishment of the work system of standard and metrology, the calibration of measuring instruments and the definition of experiences achieved in the field of standard, metrology and quality control of DPRK.

Thus the experts concerned and state personnel in these countries paid deep attention to the training course and highly appreciated the project of technical assistance of Group of 77.

The opening and closing ceremonies held in Laos and Cambodia were attended by the ministers of those countries and advertised through the newspapers and televisions.

The report on the activities of delegation in Laos and Cambodia is listed in Annexes 1 and 2.

On the completion of the preparation for lectures, the training course for the Nepal and Bangladesh personnel in the field of standard and metrology was held in Pyongyang, DPRK from 14 to 21, November, 2000.

The training course took place in the Central Institute of Quality and Metrology and was opened by the inauguration speech of Mrs. Pak Mu Song, Director of Standardization Committee of DPRK.

At the opening ceremony, Dr. Kim Chong Un, Director of CIQM made a celebrating speech and introduced the schedule of training course and the professors to give lectures.

The list of trainees of Nepal and Bangladesh is given in Annex 3 and the title of papers for lecture in Annex 4.

The trainees were provided with the papers and documents for lectures necessary for the development of standard and metrology; 6 papers for standard and 8 papers and 9 guides to the calibration in the field of mass, temperature and flow for metrology.

The training course was conducted popularly and practically in the form of conversation in close relation to the experiences gained in the work of standard and metrology of DPRK.

During the course the Standardization Committee of DPRK organized visits to the Central Institute of Quality and Metrology, Grand People's Study Hall, theaters, museums and several historical places in Pyongyang and other regions so that the trainees could study the situation of the work of standard and metrology in DPRK.

The speech of Mrs. Pak Mu Song, Director of Standardization Committee of DPRK and also the speeches made by the delegations from Nepal and Bangladesh closed the training course.

CIQM provided the trainees with the 1<sup>st</sup> class sets mass standard weights specially prepared for the real contribution to the meteorological works of the developing countries and the south-south cooperation, and they expressed their earnest thanks to the Standardization Committee of DPRK and CIQM.

The trainees unanimously recognized that the present course was successfully conducted as one of the works to strengthen the south-south cooperation among developing countries and presented recommendations to organize such training program continuously through Group of 77.

### **3. Outputs of the project**

1) Each of the beneficiaries received the personnel training required to build up the infrastructure in the field of standard, metrology and quality control and laid down the foundation to guarantee the conformity of standards among the beneficiaries.

The sponser country supplied the guides containing the practical problems arising in developing the works of standard, metrology and quality control in compliance with the developing economy and international situation in Nepal, Bangladesh, Combodia and Laos.

2) Methodological guides were given to the beneficiaries to establish mutual conformity assessment according to ISO 9000 and ISO 14000.

3) Having recognized that the cooperation in the field of standard and metrology among the beneficiaries is required, Laos and Cambodia requested the Standardization Committee of DPRK to give assistance to the establishment of laboratory and the supply of facilities through the fund from the international organization, and this will be further discussed as the fund source is solved.

Nepal and Bangladesh was provided with the 1<sup>st</sup> class sets of mass standard weights and the problem of the inter-comparision in a low price were suggested.

4) The beneficiaries were provided with various kinds of calibration guides necessary to establish the unified system of meteorological calibration.

5) The project being completed, a lot of personnel in Cambodia and Laos and 4 personnel in Nepal and Bangladesh were trained as the experts with rich knowledge and granted the participation certificates.

### **4. Conclusion**

The Standardization Committee of DPRK attained valuable experience through the implementation of the project that the cooperation and assistance among developing countries is necessary to develop the works of standard, metrology and quality control which plays important role in the development of national economy.

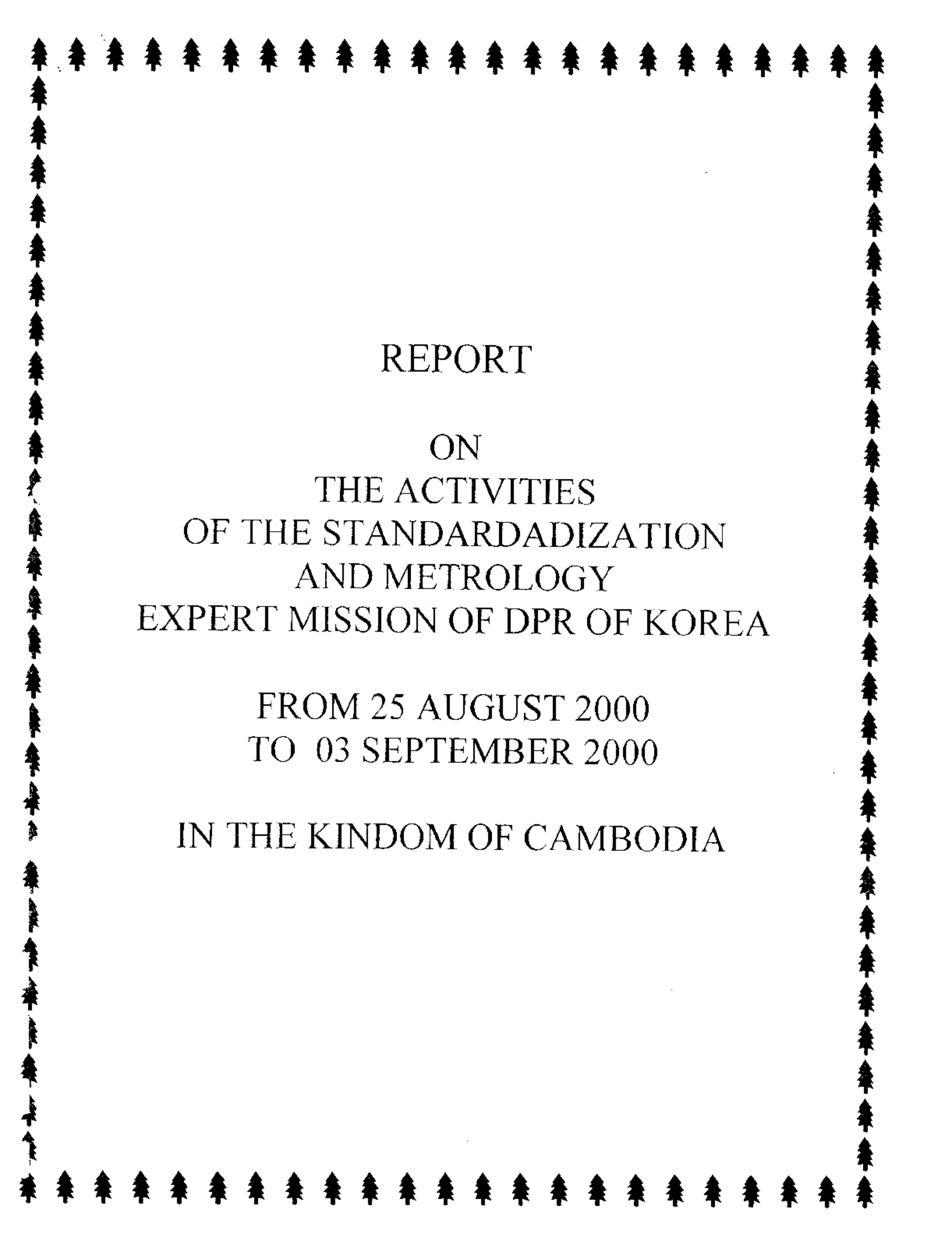
Considering such experience and the suggestion of trainees, the Standardization Committee of DPRK feel it necessary that the international organization, Group of 77 would supply the efficient assistance to the new project for the development of the works of standard, metrology and quality control in the developing countries.

Thus, the Standardization Committee fully implemented the planned object through the execution of the project program.

**5. The Perez-Guerrero Trust Fund of 77 Group was efficiently used for implementing the project and the statement of account is as follows;**

Statement of Expenditure

1. Personnel	Person/month	Expenditure (USD)
responsible consultant	2	1,450
consultant	4	2,690
2. Organization of course		
Traveling fee		9,700
fee for board and lodging		3,120
3. Dispatch of consultants		
		2,800
4. Equipment		
		3,500
5. Miscellaneous		
		1,740
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Total		25,000
Amount received from the FUND		25,000



REPORT

ON

THE ACTIVITIES

OF THE STANDARDIZATION

AND METROLOGY

EXPERT MISSION OF DPR OF KOREA

FROM 25 AUGUST 2000

TO 03 SEPTEMBER 2000

IN THE KINGDOM OF CAMBODIA

REPORT  
ON THE ACTIVITIES OF THE STANDARDIZATION AND METROLOGY  
EXPERT MISSION OF DPR OF KOREA.

The Standardization and Metrology Expert Mission of DPR of Korea visited Phnom Penh, Kingdom of Cambodia, from 25 August to 02 September 2000, to implement the Project " Technical Assistance Based on the Regional Approach in the field of Standardization and Quality Management Among Developing Countries "

The Mission constituted of three experts namely, Mr. RI SIN SOK, Standard Senior officer, Mr. RI MAN HO, Metrology Senior officer and Mr. KIM KYONG HO, officer of the CSK (Committee for Standardization of DPR of Korea) has organized a training course under the great ideal of the great leader Comrade KIM IL SUNG and the dear leader Comrade KIM JONG IL on the development of South-South Cooperation.

The course was started in on the opening ceremony being attendance H.E. SUY SEM, Minister of Industry, Mines and Energy, Mr. KIM JONG NAM, Ambassador Extraordinary and Plenipotentiary of the Embassy of DPR of Korea, H.E. CHEK CHHRING, and H.E. PHOK SOVANRITH, Under Secretary of State of Ministry of Industry, Mines and Energy, and practiced one day of standard training course in participation of fifteen people in the Department of Industrial Techniques and four days of metrology training course with sixty three people in the Department of Metrology and the Provinces of the country.

The work agenda is attached in Annex.

The Mission provided five kinds of manuals of standard and six kinds of manuals and eight kinds of guides of metrology.

The Mission was received by Mr. PING SILAY, Deputy Director of the Department of Industrial Techniques and Mr. HO KADEB, Director of the Department of Metrology, was informed the real state of and the experience in the country's standardization and metrology work and promised the future cooperation.

The Ministry of Industry, Mines and Energy expressed a deep gratitude for the assistance of CSK and asked its cooperation.

In Standardization they called an assistance on standards documentation, training officials and providing laboratory equipments in cooperation with international organizations.

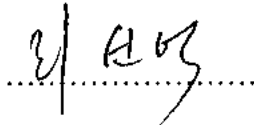
In Metrology they made a declaration of intention of presenting the request on the matter of helpness by the experts of DPR of Korea in establishing the National Institution of Legal Metrology of Cambodia (NIMC) in the Kingdom of Cambodia for six months.

The Mission decided to make every endeavor in seeking the possibilities and to inform the arrangement by correspondence.

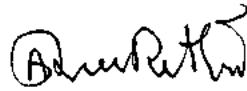


The Ministry of Industry, Mine and Energy of the Kingdom of Cambodia expressed the gratitude for organizing the training course under the solicitude of the great leader Comrade KIM JONG IL, while the Mission appreciated its sincerity for the successful performance of the course

01st. September Juche 89 (2000)



RI SIN SOK  
Representative of CSK



H.E. PHOK SOVANRITH  
Under Secretary of State,  
Representative of MIME.

ANNEX  
WORK AGENDA

25 August 2000 Friday

- Arrival in Phnom Penh
- Mutual agreement on the work agenda

28 August 2000 Monday

morning

- Opening address
- Standardization in the DPR of Korea
- Technical activities of standardization

afternoon

- Conformity assessment
- Quality certification and ISO 9000 family of standard

29 August 2000 Tuesday

morning

- Opening Ceremony
- Experience of metrological work in DPR of Korea
- Measurement unit and calibration hierarchy

afternoon

- Modeling the measurement

30 August 2000 Wednesday

morning

- Mass measurement
- Verification regulation of working weights

afternoon

- Verification regulation of platform scales
- Verification regulation of fan-shaped tables scales

31 August, 2000 Thursday

morning

- Visit the laboratory of quality control

afternoon

- Verification regulation of metal capacity measures
- Verification regulation of gasoline dispensers

01 September 2000 Friday

- Closing ceremony and award certificates to participants

02 September 2000 Saturday

- Study tour

03 September 2000 Sunday

- Departure



**Lao People's Democratic Republic  
Peace Independence Democracy Unity Prosperity**

**Prime Minister's Office(PMO)  
Science , Technology and  
Environment Agency(STEA)  
Department of Intellectual Property ,  
Standardization and Metrology**

**Date : August 24, 2000**

**Report on the Activities of  
The Democratic People's Republic of KOREA  
Experts Mission, From 16 to 25 August, 2000.**

**Science, Technology and Environment Agency (STEA),  
Department of Intellectual Property, Standardization and Metrology  
P.O. Box 2279, Vientiane Lao PDR  
Tel : (856-21) 219002-3. Fax : (856-21) 213-72  
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**REPORT ON THE ACTIVITIES OF THE STANDARDIZATION AND METROLOGY  
EXPERT MISSION OF DPR OF KOREA MISSION**

Due to the Assistance Project among the Developing countries ( Group G77 ) the Standardization and Metrology Expert had implemented a mission in Vientiane, Lao PDR, from 16 to 25 August,2000 under the project namely "Technical Assistance Based on the Regional Approach in the field of Standardization, Metrology and Quality Management Among Developing Countries " .

The Mission constituted of three experts of DPR of Korea namely Mr. RI Sin Sok, Standards senior officer ; Mr. RI Mam Ho Metrology senior officer and Mr. KIM Kyong Ho officer, had organized a Job training course in Lao PDR under the great ideal of the great leader comrade KIM IL SUNG and the dear leader comrade KIM JONG IL on the development of South - South cooperation.

The mission are welcomed by Lao team namely Mr. Sisomphet NHOYBOUAKONG, Deputy Director General of the Department of Intellectual Property, Standardization and Metrology ( DISM ); Mr. Ratsamy PHANTHAVONG, Director of Metrology Division; Mr. Soumana CHOUNLAMANY, Director of Standard Division; and Mr. Bounthiem PHIMVONGSA, Deputy Director of Metrology Division and others officials. The Job training courses were participated of six officials( three from each Standards and Quality Division and Metrology Division).The items of the job training courses are listed in annex 2.

## **Objectives of the Job Training Courses:**

1. To train specifically Lao officer on Metrology and Standardization
2. To Identify possibilities of a cooperation in Metrology and Standard among developing countries.
3. To collect the issues and recommendations from the Lao Metrology and Standardization Division.

Due to the limited time of the mission, Lao team were highlighted on the developments situation of their Metrology and Standardization systems where the details have described in the Lao Master Plan see annex 1. In addition with the Job training program listed in the schedule work see annex 2, the experts team of DPR of Korea also informed of the successes and experiences achieved in Metrology and Standardization in the DPR of Korea through the lectures and the practices as well as the modern documents provided from the Central Institute of Quality and Metrology( CIQM ) of DPR OF Korea to Lao experts such as :

- Structure Technical Characteristics and weighing methods of weights.
- Experience of Metrology work in DPR of Korea.
- Experience of Standardization work in DPR of Korea.

During the mission the expert team of DPR of korea visited some laboratories as listed (in annex 2 ) by inquiring into real state of Standardization and Metrology in Lao PDR .

To continuously assist Lao Metrology division on how to get and keep data information particularly from the internet , Mr. RI Sin Sok on behalf of the leader of the DPR of experts Korea mission and the Committee of Standardization of DPR of Korea ( CSK ) has hand over one set of computer which the estimated cost is 1000 \$US and composed of :

1. One Monitor
2. One central Processing Unit ( CPU ; Pentium II)
  - Hard drive of 4,3 GB
  - Ram of 32 MB, and
3. Two Speakers.

The mission recognized that it is necessary to support the Standardization and Metrology work in Lao PDR and In the ensuing discussions between both sides the following priorities were identified :

1. Due to the Lack of manpower, testing equipments and quality assurance technology in the industries and lack of independent testing laboratories( legal and industrial metrology), the Science Technology and Environment Agency (STEA) requested to the Committee of Standardization of DPR of Korea( CSK ) through the representative of DPR of Korea experts as follows :
  - To establish an appropriate standards of Metrology testing Laboratory to Lao PDR.

- To provide personal training for strengthening the capacities and technical capabilities on operation of metrology laboratory.

The Department of Intellectual Property , Standardization and Metrology ( DISM ) expressed a deep gratitude for this job training which was held in cooperation of the two countries, DPR of Korea and Lao PDR, on the basis of friendship.

The Project of cooperation should be considered further more by both sides and be informed by each other in documentation in a few period when the funds resources are settled.

Done at Vientiane, Lao PDR,

Dated August 24, 2000

Approved by :



Mr. Sisomphet NHOYBOUAKONG  
Deputy Director General  
Dept.of Intellectual Property,  
Standardization and Metrology( DISM )

Signed by :

RI Sin Sok   
Representative of CSK

Annex 1

**NATIONAL MASTER PLAN  
FOR STANDARDS  
AND  
CONFORMITY ASSESSMENT  
IN LAO PDR.**



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## 1. INTRODUCTION

In realizing the decision of the ASEAN Economic Ministers to provide assistance to the new Members of ASEAN and as a result of the Seminar and Study Visit of the members of the ASEAN Consultative Committee on Standards and Quality (ACCSQ) held in Vientiane, Lao PDR on 15-17 December 1998, and at the 13th ACCSQ Meeting held in Manila, Philippines on 18-19 March 1999, the meeting agreed among others, to the ASEAN Secretariat proposal to work with Lao PDR to develop a National Master Plan for standards and conformity assessment in Lao PDR.

ACCSQ is a subsidiary body under the ASEAN Senior Economic Officials Meeting (SEOM) aims to facilitate the removal of technical barriers to trade and act as the focal point in ASEAN on standards and quality.

This National Master Plan has been prepared considering the review and study of the following documents:

- Lao PDR Macroeconomic and Development Perspective (1994-2000).
- The Eight Priority Strategic Programme of Economic Development of Lao PDR to Year 2000.
- Report of Quality, Standardization, Testing and Metrology (QSTM) Status in Lao PDR (1997).
- Overview of the Standards and Conformity Assessment in Lao PDR (1998)
- Decree of the Prime Minister on Management of the Standards and Quality of Goods and Products (1995).
- Decree of the Prime Minister on Management of Metrology (1993).

## 2. BACKGROUND AND OBJECTIVES OF THE PROJECT

Lao People's Democratic Republic (Lao PDR) is geographically situated in the heart of South East Asia with a total area of 236,800 square kilometers and a population of 4.6 million inhabitants (1997). Its capital city is Vientiane.

Lao PDR is still in the list of the least developed countries in the world, but a country with an abundance of natural resources, which are the potentiality for socio-economic development.

Since 1986, Lao PDR has decided to adopt a package of reforms intended to transform the country's economy to a market-based system. This new economic management system has come to be known as the New Economic Mechanism (NEM).

The NEM reform process has fostered the State's new role of providing an appropriate legal and regulatory framework and macroeconomic environment for private sector production through improved physical and social infrastructure.

Since the launching of the NEM programme of economic reform in 1986, the Government of Lao PDR has achieved remarkable success in stabilizing the economy.

The GNP growth rate up to 1998 is increased by 7.6%.

Foreign investment has been actively promoted as an important element of the NEM. The passage of a new Foreign Investment Law has resulted in considerable foreign investment.

With respect to Development Planning, the government's main socio-economic objectives and strategic plans were elaborated in "Socio-Economic Development Strategies". The Government's main objectives for the year 1994-2000 period include:

1. Improvement in living standards, especially in remote mountainous regions;
2. Raising public service salaries corresponding to national revenue increases; and
3. Ensuring socio-political stability linked directly with socio-economic development.

As for the strategies to achieve such economic goals, the Government declared seven "strategies" these represent more an articulation of the Government's overall development objectives rather than specific strategies with a well-defined set of activities and targets. It included, among others, expansion of economic cooperations with foreign countries including integrating the economy into the global economy.

Currently, Lao PDR has trading relations with more than 30 countries of the world.

In July 1997, the Government of Lao PDR has joined the Association of South East Asian Nations (ASEAN) in which one of the objectives is the establishment of ASEAN Free Trade Area (AFTA) by year 2003.

The government on the Common Effective Preferential Tariff (CEPT) Scheme for the ASEAN Free Trade Area signed on 28 January 1992 provides for the border and non-border areas of cooperation to supplement and complement the liberalization of trade including, among others, the harmonization of standards, reciprocal recognition of tests and certification of products.

The objective of this the National Master Plan is to develop and improve Standard and Conformity Assessment is improving the quality international confidence and competitiveness of products and services in Lao PDR by pursuing the following:

1. Review of existing and drafting of new laws, rules and regulations on Standards and Conformity Assessment;
2. Strengthening or restructuring of organizational structure of institutions responsible for Standards and Conformity Assessment;
3. Development and improvement of product and quality system certifications;

4. Effective implementation of Standards and Conformity Assessment into all enterprises;
5. Establishment of industrial and legal metrology facilities;
6. Establishment or upgrading of testing facilities; and
7. Establishment of documentation and information system on standards and conformance.

### **3. PRESENT SOCIO-ECONOMIC SITUATION OF LAO PEOPLE'S DEMOCRATIC REPUBLIC**

The Lao People's Democratic Republic main socio-economic objectives and strategic plans were elaborated in "Socio-Economic Development Strategies". The Government's main objectives for the year 1994-2000 period include:

1. Improvement in living standards, especially in remote mountainous regions;
2. Raising public service salaries corresponding to national revenue increases; and
3. Ensuring socio-political stability linked directly with socio-economic development.

As for the strategies to achieve such economic goals, the Government declared seven "strategies"; these represent more on articulation of the Government's overall development objectives rather than specific strategies with a well-defined set of activities and targets. The Government's medium-term development plan, includes the following:

1. Establish a commercially productive agro-forestry industry and services.
2. Continue to promote the market economy under the legal framework.
3. Provide for countrywide development with emphasis on the central region.
4. Pursue integrated rural development by improving farming techniques to improve family forms and establish industrial processing bases
5. Clearly define the Government's role in macro-economic management to eliminate the remainder of the command economy and promote private enterprise.
6. Further expand economic cooperation with foreign countries including integrating the economy into the global economy.
7. Undertake sustainable human resource development to create a workforce with capabilities to meet national demands.

Agriculture is the principal economic sector, accounting for 56% of GDP whereas industrial and service sectors account for 20% and 24% respectively of GDP. The GDP growth rate up to year 1998 is increased by 7.6%. Industry on the other hand grew by 13.4% in 1997 with manufacturing, mining and hydropower as the leading subsectors.

Manufacturing enterprises include brewery, soft drink, plywood, paper mill, feed mill, sugar mill, powder soap, cement, pharmaceutical, textile, garment, plastic products, etc.

#### **4. THE PRESENT STATUS AND PROBLEMS IN THE IMPLEMENTATION OF QUALITY, STANDARDIZATION, TESTING AND METROLOGY (QSTM) PROGRAMS .**

##### **4.1 The present status of QSTM Programs**

The Department of Intellectual Property, Standardization and Metrology (DISM) established in 1993 under the Science, Technology and Environment Agency (STEA) is the governmental body, having responsibility to advice the government on issues in the field of QSTM management in the whole country.

STEA is the focal point responsible for QSTM activities is composed of 2 parts Central and Local management.

The DISM under STEA is a central management agency. Its functions are as follows:

- Prepare plans, laws rules and regulations on QSTM and submit them to the higher authorities for approval.
- Organize the supervision and central on the implementation of the approved laws, rules and regulations.
- Establish organization system on QSTM and provide methodological guidance for all activities of the above system.
- Organize formulation of national standards and maintain national metrology standards.
- Provide and implement quality system and product certifications, testing and calibration, verification of metrology equipment and laboratory accreditation.
- Implement the supervision and inspection on quality of goods and products and measuring instruments.
- Conduct studies on QSTM.
- Improve the technical level of employees, training and cooperate with regional and international organizations in the field of QSTM management.

The local management agency Ministerial, (Provincial and Municipal Level) has the role in activities regarding QSTM matters as well as the central activities but according to the recommendations of the central management agency.

The main priority task of DISM under STEA is to improve standards and quality activities and encourage actively standards and quality awareness in all economic sectors so as to:

- Unify administration and protection of standards and quality throughout the country;
- Speed up economic, scientific and technical development;
- Ensure and improve quality of goods and products;

- Encourage legal and proper competitiveness in production and services;
- Protect and ensure consumer rights, facilitate producers to keep products at high quality with environment, safety, labour and hygiene protection;
- And expand international co-operation.

In order to ensure and strengthen administration of QSTM matters, Lao PDR government has promulgated a Decree on metrology management issued on 26 October 1993 and Decree on standards and quality of products management issued on 02 November 1995 and some regulations concerned such as Regulation on Registration of product and measuring instruments and regulations on national standard marks which are the main legal reference for QSTM activities for food and drug some regulations have been prepared, and issued by the Food and Drug Administrative Commission under Ministry of Public Health.

Lao PDR government through STEA and other Ministries concerned have a great intention to expand QSTM activities, but they have to resolve manifold difficulties related to:

1. Establishment of standard:
  1. Lack of standards;
  2. Defining the criteria for mandatory standards and voluntary standards.
  
2. Implementation of standards
  - a. Lack of information on standards and lack of public understanding of standards;
  - b. Lack of manpower, testing equipment and quality assurance technology in the industry;
  - c. Lack of independent testing laboratories (legal and industrial metrology);
  - d. Lack of skills manpower and experiences on standards and conformity assessment at DISM and STEA;
  - e. Indifference to standards and low conformity to standards by industry;
  - f. Absence of quality system certification program;
  - g. Absence of export-import quality inspection program;
  - h. Improvement of product certification program;
  - i. Absence of accreditation program for conformity assessment bodies.

**5. PROPOSED PROJECT ACTIVITIES ON THE DEVELOPMENT OF STANDARDS AND CONFORMITY ASSESSMENT IN LAO PDR**

Development objective		Promote development of efficient and competitive industries				
Project purpose		Strengthen the capacities and technical capabilities of implementing bodies				
Results Output	1. Lao Standards Prepared + issued	2. Operational quality assurance program	3. Operational testing facilities	4. Operational legal metrology services	5. Operational industrial metrology laboratory	6. Modern documentation of information system
Indicator of results	Lao Standards	<ul style="list-style-type: none"> <li>Product certification scheme</li> <li>Quality system certification/ registration</li> <li>Factory and shipment inspection</li> <li>Training of personnel</li> <li>Quality promotion</li> </ul>	Testing laboratories <ul style="list-style-type: none"> <li>Microbiology</li> <li>Chemical</li> <li>Pharmaceutical</li> <li>Cosmetics</li> <li>Mechanical</li> <li>Electrical</li> <li>Textile</li> </ul>	Verification operations <ul style="list-style-type: none"> <li>Mass</li> <li>Length</li> <li>Volume</li> <li>Fuel</li> <li>Tankers</li> <li>Pressure gauges</li> </ul>	9 Quantities <ul style="list-style-type: none"> <li>Mass</li> <li>Length + angle</li> <li>Volume + flow</li> <li>Force and hardness</li> <li>Pressure</li> <li>Temp. +humidity</li> <li>Viscosity and density</li> <li>Electrical quantities</li> <li>Frequency and time</li> </ul>	<ul style="list-style-type: none"> <li>Data processing</li> <li>Electronic measuring</li> <li>Promotional work</li> <li>Dissemination</li> <li>Product Information</li> <li>Databases</li> <li>Modern techniques</li> </ul>
Activities	1.1 Establishment TCs, SCs and WGs	2.1 provide fellowship	3.1 prepare equipment requisition lists	4.1 prepare equipment requisition lists	5.1 prepare equipment requisition lists	6.1 prepare requisition list, order and delivery of standards
	1.2 formulate guides and rules	2.2 elaborate programme and operational structure	3.2 provide fellowships	4.2 tender, bid and order and delivery of equipment	5.2 tender, bid order and delivery of equipment	6.2 prepare requisition list order and delivery of equipment
	1.3 advise on review/ revision of DIPSM+ STENO Act	2.3 formulate rules and regulations quality manual, guides and procedures	3.3 tender, bid and order test equipment	4.3 provide fellowships	5.3 provide fellowships	6.3 provide fellowships
	1.4 provide fellowships	2.4 formulate training guides and material	3.4 delivery of test equipment	4.4 install equipment	5.4 install equipment	6.4 install equipment
	1.5 conduct on-the-job training	2.5 conduct seminars on quality assurance, ISO 9000, ISO 14000, etc.	3.5 install test equipment	4.5 establish rules and regulations, quality manual, guides and procedures for calibration method and equipment maintenance	5.5 establish rules and regulations, quality manual, guides and procedures for calibration method and equipment maintenance	6.5 operate electronic exchange and messaging of data and information

**5. PROPOSED PROJECT ACTIVITIES ON THE DEVELOPMENT**

C:/ Standards. Proposed. Master. Doc.

**OF STANDARDS AND CONFORMITY ASSESSMENT IN LAO PDR (Continuation)**

Results Output	1. Lao Standards Prepared + issued	2. Operational quality assurance program	3. Operational testing facilities	4. Operational legal metrology services	5. Operational industrial metrology laboratory	6. Modern documentation of information system
	1.6 draft process and approve Lao standards	2.6 conduct on-the-job training	3.6 conduct on the job training	4.6 conduct on the job training	5.6 provide fellowships	6.6 operate modern computerise system
	1.7 print and issue Lao standards	2.7 arrange for practical in assessment	3.7 establish quality manual, guides and procedures for laboratory management and operation	4.7 apply computer system	5.7 conduct on the job training	6.7 develop marketing, strategy for services
	1.8 apply computer system	2.8 provide study tours	3.9 apply computer system	4.8 establish corporate planning, programming, and monitoring	5.8 apply computer system	6.8 establish corporate planning, programming, and monitoring
	1.9 establish corporate planning, programming, and monitoring	2.9 arrange for accreditation of quality assurance programmes	3.10 arrange for accreditation of laboratory facilities		5.9 establish corporate planning, programming, and monitoring	
		2.10 apply computer system	3.11 establish corporate planning, programming, and monitoring			
		2.11 establish corporate planning, programming, and monitoring				



**6. Review of Organizational Structure of Institutions Responsible for Standards and Conformity Assessment.**

In order to address accreditation programs such as laboratory accreditation, accreditation of quality system certification bodies, product certification bodies, inspection bodies and other emerging conformity assessment bodies, a review of present organizational structure of institution responsible for standards and conformity assessment shall like will wise be undertaken.

## Annex 2

### WORK AGENDA

#### Thursday: ( Aug 17, 2000 ) :

- Mutual Agreement on the Work Agenda
- Exchange of Experience and discussion on the Cooperation in the field of Standardization and Metrology.

#### Friday: ( Aug 18, 2000 ) :

##### Visit Laboratories of :

- Lao Electricity Company
- Lao Water Supply Company
- Lao National University ( Engineering Architecture Faculty ).

#### Saturday : ( Aug 19, 2000 ) :

- Study tour

#### Sunday : ( Aug 20, 2000 ) :

- Free day

Monday : ( Aug 21 , 2000 ) :

**Job training on Standardization:**

- Standardization in DPR of Korea ( 9 am – 9:15 am )
- Structure, aims and objectives of an NSB ( 9:20 am – 10 :30 am )
- Organs of Management ( 10:45 am – 12 am )
- Technical activities ( 2 pm – 3:30 pm )
- Quality Certification and ISO 9000 Family of Standards  
(Conformity Assessment ) (3:45 pm – 5pm ) .

Tuesday : ( Aug 22, 2000 ):

**Job training of Metrology :**

- Metrology in DPR of Korea ( 9 am – 10: 30 am )
- Measurement unit and Calibration Hierarchy ( 10:45 am – 12 am )
- Modelling the Measurement ( 2 pm – 3:30 pm )
- Continued ( 3:45 pm – 5 pm )

Wednesday : ( Aug 23, 2000 ):

**Job training of Metrology ( continued ) :**

- Elementary Knowledge of Mass measurement ( 9 am – 10 am)
- Mass Weighing methods ( theory ) ( 10:30 am – 12 am )

- Mass Weighing methods ( practice ) ( 2 pm – 5 pm )

Thursday : ( Aug 24, 2000 ) :

- Evaluation and Report by the expert Mission (10 :00 am – 12 am ).
- Meeting the Director General of (DISM)( 2 :30pm – 3:00 pm )
- Hand over of a set computer from the Committee of Standardization of DPR of Korea ( CSK ) to the Department of Intellectual Property, Standardization and Metrology ( DISM) of Lao PDR ( 3:00 pm – 4 :00 pm ) .
- Welcome dinner hosted by STEA ( 7 :00 pm ).

Friday : ( Aug 25, 2000 ) :

Departure of DPR of Korea experts mission.

#### 4. Photograph



Opening ceremony (CAMBODIA)



Course on standards (CAMBODIA)



Closing Ceremony (CAMBODIA)



Course and practice on metrology (Lao PDR)

## Annex 3

**List of the participants of the international  
training course in *Pyongyang***

No	Name	Sex	Position	Date of birth
1	Kulprasad S. Sapkota	Male	Vice-director of the Bureau of Standard and Metrology, Industry Ministry, Nepal	1950. 9. 6
2	Padma Bahadur Shakya	Male	Senior expert ---- " -----	1947. 9. 10
3	MD. Ferozmian	Male	Vice-director, Bureau of standard, Standard and Testing association, Bangladesh	1950. 1. 1
4	MD. Altab Hussain	Male	Vice-director, Bureau of Metrology	1959. 6. 1



## Contents of the training course

### Lessons

#### Field of standardization

1. The works of standardization in DPRK	1
2. The formulation of the standardization plan	2
3. The assessment of the economic efficiency of standard	2
4. The conformity assessment and ISO 9000	1
5. The environment management and ISO 14000	1
6. The management of standard information data	1
<b>Total</b>	<b>8</b>

#### Field of metrology

1. The meteorological works in DPRK	1
2. Uncertainty in measurement	2
3. Mass measurement and weighing method	1
4. Pressure measurement and calibration method of manometers	1
5. Flow measurement and calibration method of fuel dispensers	1
6. Calibration and manufacturing method of capacity measures	1
7. Structure, technical characteristics and manufacturing method of weights	1
<b>Total</b>	<b>8</b>





**The photograph of the training course for the Nepal and Bangladesh personnel on the field of standard and metrology held in Pyongyang D P R K from 14 to November. Juche 89(2000)**