

Payroll System at KK Engineering System

by

Ms. Supattra Kiatmahakhun

A Final Report of the Three - Credit Course CE 6998 Project

Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Science In Computer and Engineering Management Assumption University

November 1999

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Project Title	Payroll System at KK Engineering System
Name	Ms. Supattra Kiatmahakhun
Project Advisor	Dr. Thotsapon Sortrakul
Academic Year	November 1999

The Graduate School of Assumption University has approved this final report of the three-credit course, CE 6998 PROJECT, submitted in partial fulfillment of the requirements for the degree of Master of Science in Computer and Engineering Management.

Approval Committee: ta (Dr. Thotsapon Sortrakul) (Prof.Dr. Srisakdi Charmonman) Advisor Chairman (Dr. Chamnong Jungthirapanich) (Assist.Prof.Dr. Boonmark Sirinaovakul) Dean and Co-advisor Member

(Dr. Prapon Phasukyud) Member

(Assoc.Prof. Somchai Thayarnyong) MUA Representative

November 1999

ABSTRACT

Nowadays, due to a rapid business expansion and strong competition, several companies need to keep pace with such growth. The role of information is very vital to today's business. It helps serve and facilitate in decision making. This project was developed to improve the existing Payroll System at KK Engineering System Company (KKES). The work presented in this system consists of data flow diagram and structure analysis a design technique. This is a computerized Payroll System at KK Engineering System Company (KKES) to replace currently used manual system.

The existing system is studied and analyzed, and problems are identified. The new system is designed to solve or minimize the problems and finally testing and implementing are carried out.

This project, including the background of the existing system, the need of the computerized system, the new system requirements, input and output design, output report and all the necessary things that system analyst should do in designing the new system are also recorded in this project.

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Sincere thanks and appreciation are also due to several prominent personal of KK Engineering System Company for their great efforts and contributions. Upon completion of the project, the author would like to convey that corrections and recommendations are welcomed to whatever might not be as accurate as they should. Finally, she hopes that this project will be useful and have much information to the reader in one way or another.

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I. INTRODUCTION

1.1 Background of the Project

Today the economic situation is changing rapidly. Many organizations need to survive in business, so they need to have good business management in their businesses, especially the accounting system.

The accounting system is the mean by which the management of an entity accomplishes the collecting, and processing of the reporting of the essential data that reflect the results of the operations carried out under its direction and supervision. The accounting system includes the forms, records, procedure and devices utilized in recording, summarizing, and reporting the operating and financial data required by management for its own use in controlling the activities for which it is responsible and for presentation to interested parties outside the business entity.

The focus of this project is on payroll accounting system which is one part of accounting system. In many firms, the pay envelop that contained the cash wages of each worker has been replaced by the electronic transfer of payroll funds to each individual worker's bank account. The adding machine used in the calculation of the worker's take-home pay has evolved into a data processing system.

The payroll accounting system is the only operation in a business that is almost completely governed by various federal law and regulations. Regulations establish whom an employee is, when to pay an employee, and when overtime is to be paid. Lack of compliance with these laws and regulations can result in both fines and back-pay awards.

Legislation has caused the preparation and processing of payroll data to become very complicated. The laws are not static since almost every year there are changes in the tax rates and taxable amounts. Thus, those in charge of payroll operations must be currently informed of changes affecting their firms' payroll and personnel record keeping.

The increased complexity of payroll operations is true in small businesses as well as in large companies. Certain records of time worked, regular earning, overtime earnings, deductions from wages, and personnel information are needed to prepare numerous reports that must be completed accurately and promptly to print out.

At the federal and government level frequent changes are made in the laws that affect the company's payroll tax structure. Recent changes in the federal income tax with holding law has had a significant impact on every worker's take home pay. Thus payroll accounting system has become an active field of endeavor that required a constant updating on the part of the persons charged with playing and organizing the payroll system.

Because of the steady increase in the portion of a company's operating expenses, the payroll system is needed to develop in order to improve the accuracy, reliability, and timeliness of the payroll information being processed. This includes not only the calculation of the payroll and the payroll taxes but also the preparation of those records and reports that form the foundation of an efficient payroll system.

Finally it is hoped that is project will be beneficial for any organization and worker research as a reference document. This payroll accounting system is also applied to any other companies who are interested in the work of designing a payroll accounting system.

1.2 Objective of the Project

The project is studied in order that the proposed payroll accounting system would reduce repetitive manual work, timeliness of operating and conduct a good filing system. The project needs to accomplish the following:

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- To study the existing system and the new system for service system to improve its effectiveness and efficiency.
- (2) To analyze the existing payroll system at KK Engineering System company.
- (3) To develop and implement the proposed computerized system to replace the existing one.
- (4) To develop an appreciation and an under standing of the personnel and payroll records that provide the information required under the numerous laws affecting the operation of a payroll system written in Microsoft Access.
- (5) To describe the basic payroll accounting system and procedures used in computing wages and salaries.
- (6) To introduce various types of automated equipment and data processing system that eliminates many of the repetitive operations that are common to the payroll system.

1.3 Scope of the Project

The project is focused on the payroll accounting system which supports the personnel department and the accounting department. It will classify the area of operation into main menu, payroll record, report form and utility.

- (1) To concern the problem of the existing payroll system of KK Engineering System Company and improvement of the payroll system which will facilitate the calculation of payroll, payroll tax and preparation of report form.
- (2) The design system on payroll accounting system will cover the information of employee and payroll record that provides the information for conducting an improvement on current payroll system to have a good filing and control system, and also support on upgradable requirement. The new system will

be conducted in order to facilitate the work, provide ease of use and reduce repetitive work and timeliness of operation.

- (3) To analyze the budget of the proposed payroll system and then compare with the budget of the existing payroll system. The proposed system will be focused on payback period, net present value and breaks-even analysis.
- (4) The project will cover major parts of the Payroll Accounting System, which include:
 - (a) Employee Database



II. THE EXISTING SYSTEM

2.1 Background of the Organization

KK Engineering System (KKES) company has been established in order to support the rapid expansion of Telecommunication sectors at present. The company has fully been managed the telecommunication network by the experienced, high ability and responsibility personnel who are ready with the new technology policy for the solution of the problem that may occur anytime. Furthermore, all management team has executed the same target and policy as the company's direction which are

Quality, Honesty, Patience, On time and Relation

Previously, the company has performed on design of Telephone Network, outside plant telephone installation as well as Community Antenna Television System (CATV) distribution network installation which we have presently been ready for and interested in participating in any future projects.

KKES has divided into four departments

- (1) Administration
- (2) Implementation
- (3) Business Development
- (4) Logistic

Administration

- (a) Personnel
- (b) Financing and Accounting

Implementation

- (a) Construction
- (b) Documentation

- (c) Supervision
- (d) Design

Business Development

- (a) Marketing
- (b) Planning

Logistic

- (a) Warehouse
- (b) Purchasing

The staff at KKES Company can be classified into two groups which are officer worker and construction worker. The officer worker is a person who works in the office such as member of Administrative Department, Business Development Department and Logistic Department. All of them have work time from 8:00 a.m. – 5:00 p.m. that uses Time Record Machine to keep time record. But the construction workers (except Project Manager and Site Engineer who are officer workers) will be checked for attendant by the Time Sheet Record which is responsible for by the foreman.

2.2 Existing Business Function

The company function can be classified into 4 departments. See Figure 2.1.

- Administration Department for KKES company is separated into Accounting and Financing Division, and Personnel Division.
 - (a) Accounting and financing checks in and checks out the amount of money to make the profit for the company, prepares general ledger, income statement, and balance sheet.
 - (b) Personnel division gets new employees and checks the record of all employees to make the salary records. And then checks the right amount of salary to each employee.

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- (2) Implementation Department: can be classified into 2 divisions. There are Construction and Design Divisions.
 - (a) The construction division will be separated into 2 parts.
 - (1) Documentation: the staff is responsible to prepare the summary of BOQ (Bill of Quantity) and then send the BOQ summary document to the supervision. After the supervision completed their work, the staffs of documentation need to check the site area of installation and prepare the summary of quantity (QS).
 - (2) Supervision: The staffs are responsible for the planning, controlling and managing of the installation method of the system. It also manages and schedules workers' hours to work on and finished job as scheduled.
 - (b) The design division is responsible for survey area of work and design for outside plant and CATV work. Preparing Red Line and As-Build reports that submitted to Main Contractor.
- (3) Business Development for KKES is separated into 2 divisions.
 - (a) Planning: the division has the responsibility of analyzing, controlling setting schedule of work and planning the firms' resources so that they can be used in the most efficient manner.
 - (b) Marketing: this division has the responsibility of finding out the work and co-ordinating with the planning division to solve the problem and manage the organization, contacting with the main contractor such as Telecom Asia (TA), and Telephone Organization of Thailand (TOT) and setting budget for each project.
- (4) Logistic Department for KKES is separated into 2 divisions.

- (a) Warehouse; this division has the responsibility of checking materials and stock inventory of materials.
- (b) Purchasing; this division has the responsibility of order the materials, and inspects goods and materials. Contact with suppliers and check the list of quotation price.



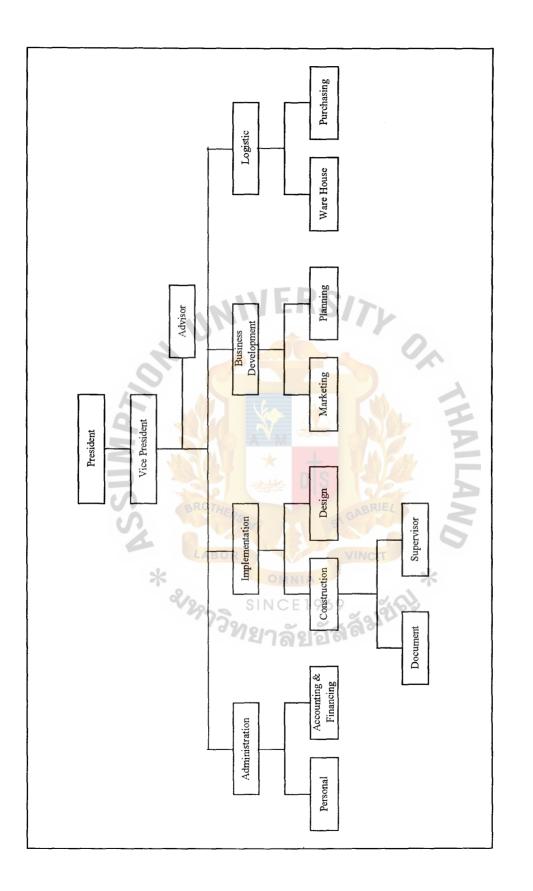


Figure 2.1. Company Organization Chart.

2.3 Existing Computer System

Payroll System uses the manual system. And, now it has many problems because the department is getting bigger and the workload is heavy. So, we decide to solve problem in this system. The computers that we use in our company are 486DX2 and Pentium 100. They are regular PC (Personnel Computer) to use in the office. In Administration Department there are 2 PC computers to use, which we think are suitable.

2.4 Analysis of the Existing System

The existing system is a manual system, as shown in Figure 2.2 Data Flow Diagram (DFD) at level 0 of the existing system.

Process 1.0: Calculate Work Hour

To keep all worker records, which are recorded by the Time Keeping Machine and Time Sheet report (use for construction worker), every employee must record everyday when he/she comes and before he/she goes home. These records will be sent to the personnel for verification by comparing their working record with the standard time for normal cases e.g. 8:00 a.m.- 5:00 p.m. which are the normal working hours. Further, the records must check whether those employees were late or not and check with overtime requisition whether it is correct or not before those employees are paid for the overtime fee.

Process 2.0: Calculate Salary

The personnel division will be using the information of employee, employee's salary and working record to calculate salary. The next step is to deduct by tax condition to find out withholding tax. After that get the net pay to each employee.

Process 3.0: Print Report of Payment

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When the calculation of employee salary is completed, the report of salary payment will be sent to the Bank (i.e. in case of employee who has an Account No.) and the another report of payment is sent to the Accounting Department to prepare the payment slip. Print out all reports by using PC.

Process 4.0: Print Slip Payment

This step occurs when report of payment is received. Payment slip can then be printed. The accounting manager needs to sign the payment slip and keep one copy for the accounting and financing division. The other is sent to the personnel division as employee evidence.

Process 5.0: Distribute Salary Payment Slip

To distribute the payment slips which are signed already to employees.



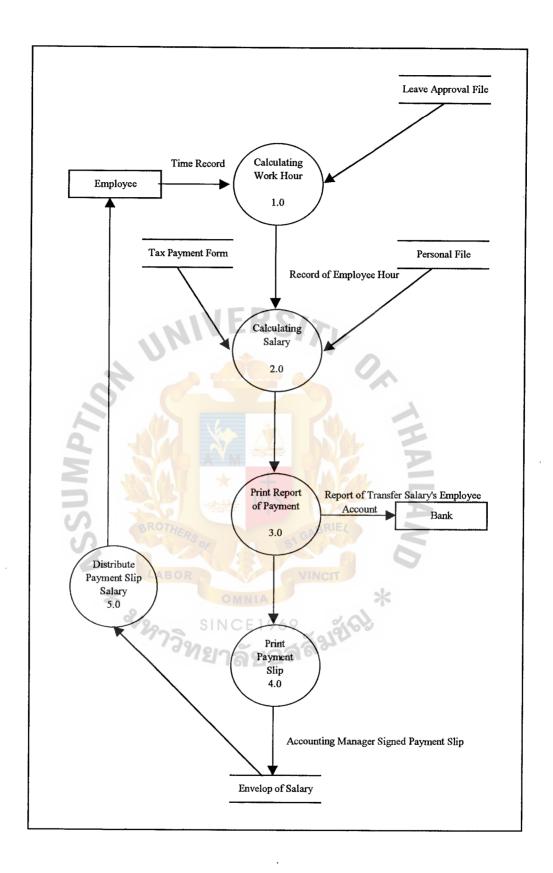


Figure 2.2. Data Flow Diagram of the Payroll System of the Existing System.

2.5 Current Problems and Areas for Improvement

After discussion and interview with personnel involved, the company identifies the existing problems of Payroll System as follows:

- (1) Duplication of the data. Resulting from an expanding business, problem on duplication of data occurs when the numbers of personnel required for the operation increase. Because of a lot of employees to manipulate information and to keep their records, sometimes we may type the same information many times.
- (2) Difficulty and time consumption in searching the record. It is not convenient to improve the information. When we would like to find or edit the employees information, salary record, personal information, attendant record and so on, we should find a lot of filing records to find their records and adjust the information.
- (3) The manual preparation of salary report is time- consuming. It may be days and sometimes weeks to prepare the report to in-house and submit to federal government and social security every month. In the step of computing salary, we should find step by step information on gross salary, other deduction, withholding tax in each period, cash deposit payment to bank, monthly summary preparing to accounting division and so on. We should prepare it every month using accurate data.
- (4) The existing system does not have any security system to access information. Because the salary payment and employee information are confidential information, we cannot allow other persons who are not related to the personnel division to access and distribute our information to other persons.

III. THE PROPOSED SYSTEM

3.1 User Requirements

Following this project, we decided to get the requirements from the administration department of KKES, which include personnel, finance and accounting divisions. We can define our activities to get the requirement as follows.

- (a) Compute employee salary has to be computerized and implemented because in calculating taxation, it takes more time to compute. The use of computer system can help to operate work faster with accuracy of data.
- (b) More reports need to be printed out such as with-holding tax, personnel income tax, salary payment reports to bank account and to accounting and financing division, and social security reports that occur every month and should be sent on time. The proposed system helps to print out these reports in a short time and can be sent on time.
- (c) The filling system for the personnel is increasing and difficult to manage. The computerized system can help us to keep record, summarize data, prepare report, and so on. We can search for the information that we need easily.
- (d) Security of the payroll system is required. We can set passwords to allow only authorized persons to access and modify the information.

In conclusion, the requirements of the proposed system can be categorized as follows. The proposed system should:

(1) Reduce overpaid and underpaid salary. Such as computing overtime cost, sometimes we may miss compute rates of overtime rate or total amount of overtime cost. Withholding tax is not the same amount every month because of overtime cost that we receive and the deduction of allowance.

- (2) Reduce processing time. Such as computing gross salary, withholding tax, cash deposit payment to bank, social security and so on. It reduces process time of worker records. Because we keep our records in the computer system and we have designed the screen layout to search for the information, we can spend a minute to find our information.
- (3) Reduce report preparation time. Our proposed system can assist us with ability to report the information automatically and promptly, submit inhouse, Social Security Act, Federal Government and Bank Account that occur every month and submit it on time.
- (4) Key new worker information only one time. Because we have designed the layout of employee information, that is the basic for manipulating the proposed system.
- (5) Provide more security control. Because we allow only authorized person to access and modify our information.

3.2 System Design

3.2.1 New System Design (Figure 3.1)

Up to this point in the unit it has been shown that a business must keep personnel and payroll records to meet the requirements of the various laws under which it operates. In addition, these records take their place as an integral part of an effective business system.

In developing its personnel system and payroll accounting system, a business should design basic forms and records that will satisfy the requirements of all laws applicable to that organization. Thus, properly designed personnel and payroll accounting forms and records result in saving both time and work because the necessary information is recorded, stored, retrieved, and distributed economically, efficiently, and quickly.

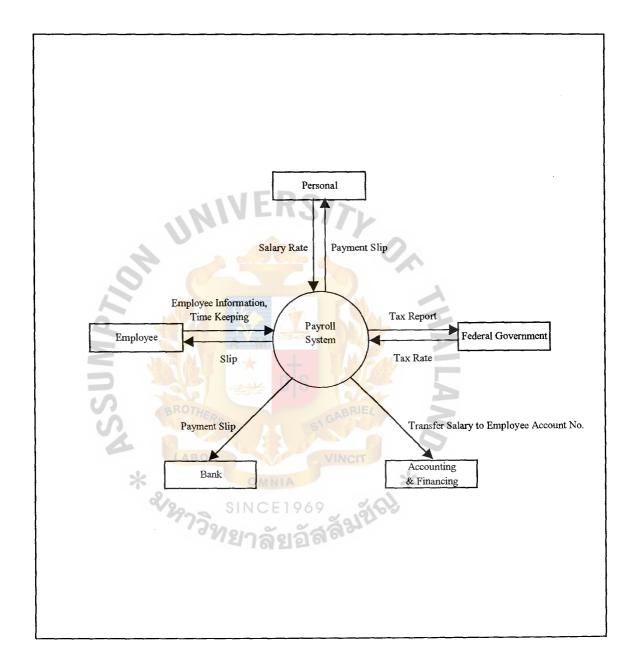


Figure 3.1. Context Diagram.

3.2.2 Overview: Data Flow Diagram Level O (Figure 3.2)

The new system design divides the whole system into three processes.

Process 1.0: Verify Employee and Work Hour

To avoid paying for time not actually spent on the job and to eliminate payment for unnecessary overtime work, we must know what types of employee activities should and should not be counted as working time under the law. Generally the hours that must be counted as working time include all time that employees are actually at work or are required to be on duty.

Process 2.0: Computing Salary

The wage includes the remuneration or compensation paid employees – salary, overtime pay, earning bonus, and any other amounts agreed upon by the employer and the employee. In KKES company all workers are monthly workers and are paid pay salary on time per month. Before paying wages, we will compute salary, overtime, social security, and withholding tax, and then we can get the net pay for each employee. Process 3.0: Report

This new system, needs more report output forms such as slip payment, cash deposit to Bank, withholding tax form, personnel income tax form, social security form, etc.

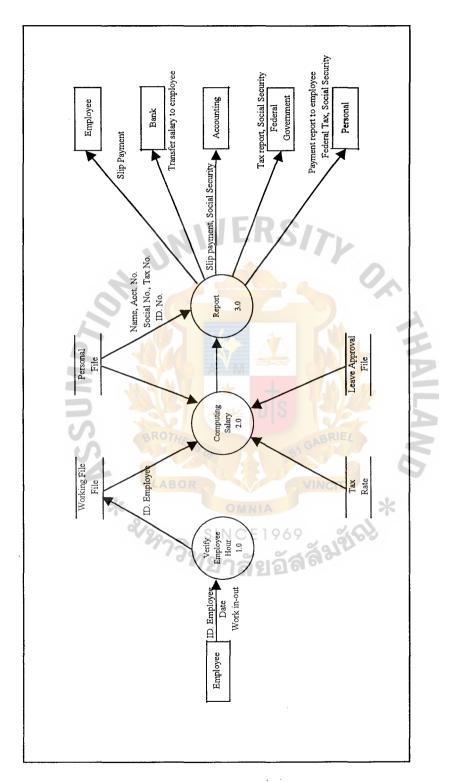


Figure 3.2. Data Flow Diagram Level 0 the Proposed System.

3.2.3 Proposed System Detail: Data Flow Diagram Level 1

Process 1.0: Verify Employee and Work Hour (Figure 3.3)

Personnel division will check all the information and classify the type of employee and actual work. In keeping the record of work in KKES, we have 2 methods. First, we use time sheet for construction worker because we are a Construction Company. Each employee is required to sign a time sheet, indicating the time of arrival for work and the time of departure because it is inconvenience to use punch card record like the office workers.

Second, we use punch card for officer workers. Recording the time worked on a time card provides an accurate and foolproof timekeeping system. The time clock is equipped with a two-color ribbon. The clock can be set so that regular time is printed in black, and irregular time in red. For example, KKES regular working hours were from 8:00 a.m. to 5:00 p.m. With an hour from noon to 1:00 p.m. for lunch, the regular working day would be eight hours. The clock would record as follows:

- (1) Black when the person punches in before 8:00 a.m. or 1:00 p.m.; also when the person punches out after 12:00 p.m. and 5:00 p.m.
- (2) Red when the person punches in after 8:00 a.m. or 1:00 p.m.; also when the person punches out before 12:00 p.m. and 5:00 p.m. In other words, when the clock prints red, the person arrived late or left early.
- (3) Red for both in and out for overtime work so that special attention is called to the extra hours worked.

Blank spaces on the card indicate that the employee was absent or had neglected to "punch in" that day. For example, if the Morning In and Out columns were blank but time was recorded in the afternoon columns, it might indicate that the employee was absent in the morning.

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At the end of the week the time cards are collected. The total hours worked, including regular and overtime, during the week are computed. This information is needed in calculating payroll and in preparing the information for the payroll register.

Employees on salary basis are frequently paid for a certain number of days of excused absences after their company, for a certain length of time, has employed them. When the employee is absent from work, the department head usually is required to approve the time card for payment of salaries for hours not worked.

There are many ways that employer handle tardiness. Frequently when an employee is late or leaves early, causing the time clock to print red, the card must be approved by the supervisor. So, KKES requires the employee to sign a special slip indicating the reason for being late or leaving early.



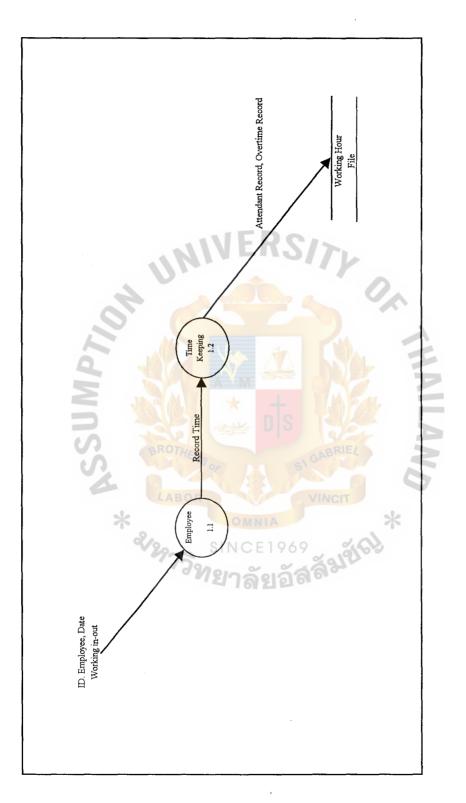


Figure 3.3. Data Flow Diagram Level 1 Process 1.0 Verify Employee & Hour.

Process 2.0: Computing Salary (Figure 3.4)

Calculating the wages of employees, we use a monthly basis. If overtime is involved, the total overtime hours are multiplied by the overtime rate. The total regular earning and the total overtime earning are added to obtain the gross earnings.

Social Security Tax is the discussion on the old age, survivors, disability and health insurance program. Under this program, benefits are payable monthly to workers who qualify under the provisions of the Social Security Act. To cover the cost of this program, taxes are imposed on employers and employees.

Taxable Wages are measured by the amount of wages paid by employers to their employees during a calendar year. In most instances, the term wages includes not only the actual money received by employees but also the cash value of remuneration paid in other forms, such as meals and lodging provided for the convenience of the employees. The term wages is not the governing factor, for salaries, and bonuses are all classified as waged if an employer with respect to employment covered under the social security laws pays them.

The taxable wage base is the maximum amount of wages during a calendar year that is subject to Federal tax. Once this taxable wage base has been reached, all payments are made to the employees during the remainder of the year, even though their wages clearly cease to be taxable wages. The wage base applies to amounts paid to employees in a calendar year and not to the time.

The taxable wage base is subject to "escalator" increases whereby it is automatically adjusted whenever an automatic increase in social security benefits becomes available. The amount of the automatic withholding tax increases in the growth from year to year in average annual wages in all employees. Under the Social Security Act as amended, taxes are imposed on employers and on employees for old age, survivors, and disability insurance benefits, and hospital insurance benefits. The current social security tax rate is 2% for both the employer and the employee portions of the tax. But the Social Security tax rate is used for the salary amount between 1,650 - 15,000 bahts.

For purposes of computing the withholding tax, employees are entitled to personnel allowances and allowances for dependents provided the employees properly furnish their employees with a claim for the allowances. In addition to the personal allowances and allowances for dependents, employees could claim other allowances such as special withholding allowance and allowances for itemized deductions and tax credits.

Gross pay comes from the wages period plus overtime cost. Net pay is obtained from gross pay minus social security tax and withholding tax in each period.

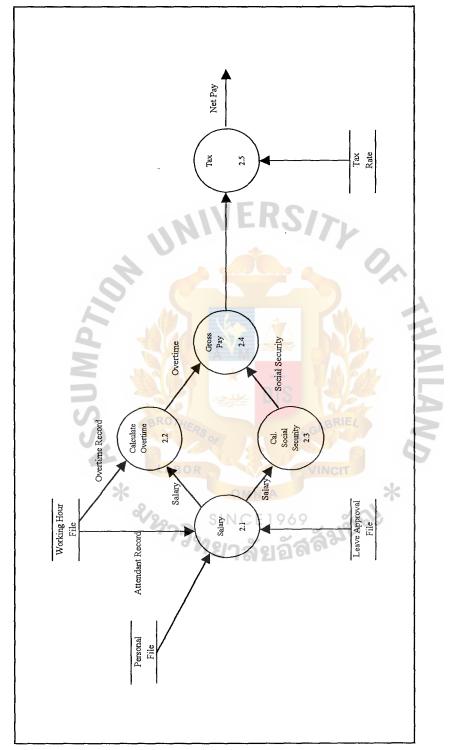


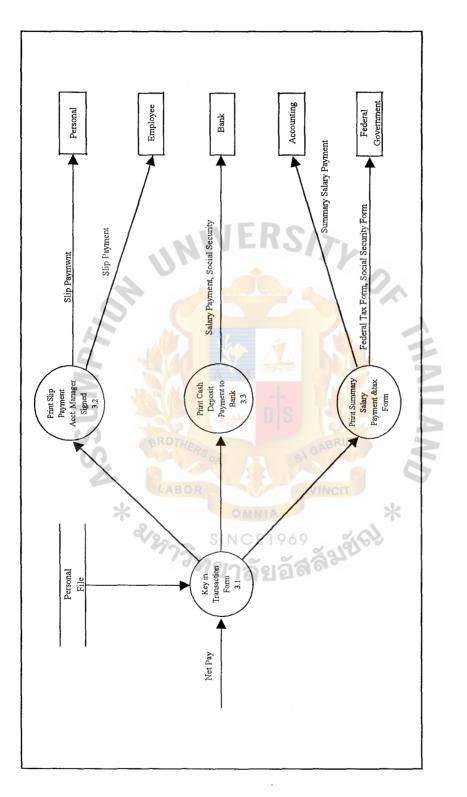
Figure 3.4. Data Flow Diagram Level 1 Process 2.0 Computing Salary.

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Process 3.0: Report (Figure 3.5)

After we have all the information, we will print out the reports. These reports will be distributed to the Personnel Division and the Account Division. Print payment slip will be printed to employee and distributed to Personal Division, and cash deposit to the Bank.





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Figure 3.5. Data Flow Diagram Level 1 Process 3:0 Report.

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The Detail of the Proposed System : Data Flow Diagram Levels (Figure 3.6)
 Process 1.0: Calculate Total Income Per Year

This process is calculated from gross pay per year.

Process 2.0: Calculate Allowance

The federal government has set up the rate of allowance as follows:

- (a) Expense Allowance is 40% of income per year not over 60,000 bahts.
- (b) Personal Allowance (sometime called exemption is a deduction allowed in computing taxable income. Rate is 30,000 bahts.
- (c) Spouse no income; the deduction rate is 30,000 bahts.
- (d) Child deduction
 - (1) Child in school the deduction rate is 17,000 bahts person
 - (2) Child at home the deduction rate is 15,000 bahts per person.

Remark: the number of children that can be deducted is not over 3 persons. INCE1969

- (e) Social Security deduction is calculated from the salary rate multiplied by 2%
- (f) Insurance premium: the deduction rate is not over 10,000 bahts per year.
- (g) Interest housing: the deduction rate is not over 10,000 bahts per year.
- (h) Donated deduction rate is 10%

Process 3.0: Calculate Tax Rate

After the number of withholding allowances has been determined, the next step is to select the method of computing the amount of federal income tax to be withheld.

To determine the tax under the percentage method, the following steps are taken:

- (1) Determine the amount of gross wages earned.
- (2) Deduct the number of allowances claimed by the amount of one allowance for the applicable payroll period.
- (3) Subtract the amount for the number of allowances claimed from the employee's gross pay to find the withholding tax.
- (4) The rate of income tax can be found as follows:
 - (a) Personal income not more than 50,000 per year does, not pay tax.
 - (b) Personal income between 50,001- 100,000 is 5% or cumulative tax is 2,500 bahts.
 - (c) Personal income between 100,001- 500,000 is 10% or cumulative tax is 42,500 bahts.
 - (d) Personal income between 500,001- 1,000,000 is 20% or cumulative tax is 142,500 bahts.
 - (e) Personal income between 1,000,001- 4,000,000 is 30% or cumulative tax is 1,042,500 bahts.
 - (f) Personal income more than 4,000,001 are 37%.

To find out the withholding tax we can use two ways.

(1) Annualizing Wages

SUMP

For withholding purposes, we may annualize their wage payments and prorate the income tax applicable to those wage payments. Under the annualizing method, we can proceed as follows:

- (a) Multiply the wages for one payroll period by the number of payroll periods in the year.
- (b) Determine the annual amount of withholding required on the total wages.
- (c) Divide the annual withholding amount by the number of payroll periods to arrive at the amount of holding for one payroll period.

(2) Cumulative Withholding

SUMP

Upon an employee's written request, we may withhold income taxes on the basis of the employee's cumulative wages. This method of withholding is primarily used when the amount of the employee's wages payment is very irregular. The cumulative withholding may be used, however, only when the employee's wages since the beginning of the current calendar year have been paid in payroll periods that are all of the same length. Under the cumulative withholding method, we can process as follows:

- (a) Add the wages for the payroll period to the total wages already during the calendar year.
- (b) Divide the aggregate amount of wages by the number of payroll periods to which it pertain.

- (c) Compute the total taxes on the average amount of wages just as if that amount had been paid to the employee in each of the payroll periods to which the total amount relates.
- (d) Subtract from this amount of tax any already withheld during the preceding payroll periods.
- (e) Deduct any excess tax from the current wages.

Process 4.0: Calculate Net Pay

We can find the total of the net amount paid to the employees from gross pay, deduction allowances, and withholding tax in each period.



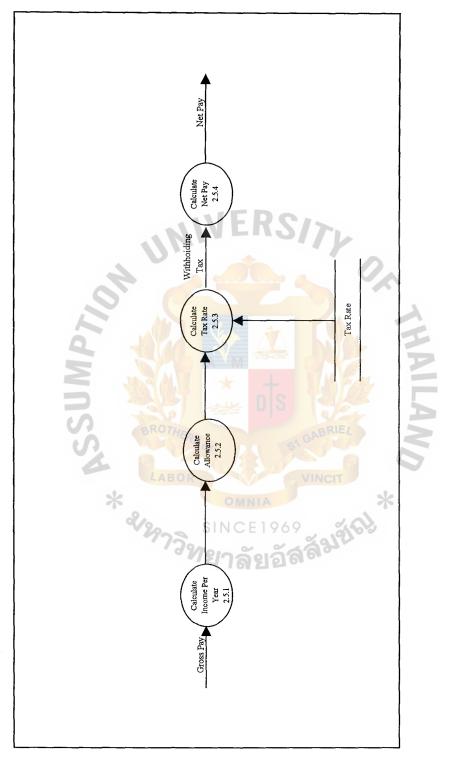


Figure 3.6. Data Flow Diagram Level 2 Process 2.5 Tax Rate.

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3.3 Hardware and Software Requirements

Payroll System needs tools and requirements in system development and implementation that can be classified into hardware and software as follows:

The computer system which will be used for implementing this system can be a PC. Such a computer system can be found easily on the market, and allows much application software to run on. The system also supports the use of Thai characters set. The selected computer configurations are as follows.

PROCESSOR minimum CPU Intel 80486 DX - 33 SPEED 33 MHz Test 111 MHz CACHE 256K, Internal 8K MEMORY 4 MB Ram onboard AT-BUS Super I/O (2S, 1P, 1G) CONTROLLER MULTI-I/O 2 Serials, 1 Parallel DISK DRIVE 1.2 MB & 1.44 MB MONITOR Super VGA Color Monitor 14" DISPLAY CARD Super VGA Card 1 MB THAI FEATURE Thai 25 lines (IRC) Power Supply 250 Watt POWER HARDDISK 850 MB **MOUSE** PRINTER Dot matrix 24 pin line with support the the printing of Thai and English.

Software system configuration (software, this is the minimum requirement)

(1) Operation System.

(2) Graphic Use Interface Tools Window97.

- (3) Programming and Database Development tools Microsoft Access 97.
- (4) Application Software.

3.4 Components of the Computer System

Input

There are two forms of input or data entry to the computer system: (1) the program that tells the computer what operations to perform and in what order and (2) the data to be processed.

In this payroll system the forms of input are:

- VDTs (video display terminals), which are used for the manual keyboard of data, for updating data already stored in the computer.
- (2) To use the diskette, an operation inserts the diskette into a slot on the VDT, after which the input data are keyboarded by the operation officer who inspects the contents shown on the display screen. Once the accuracy of the data is ensured, the data are recorded on the diskette for later transfer to the computer.

Processing

The main work area in the computer system is called the central processing unit (CPU), and within this area are the three operation unit outlines. Both data and instruction enter the primary storage unit (also called the memory) before the processing begins; or they may be stored in secondary storage.

Output

After a program has been run, the results of the computer operations, the output are communicated to its user. The instructions fed into the computer indicate the location in the storage unit of the output that is to be printed out, where it is to be printed, and the manner in which it will be printed. The major kinds of output devices are described below.

- Video display terminals, some which have the capability for displaying the copy in color, which enhances the presentation of graphic.
- (2) Printers will be printed the information after processed the program by computer.

3.5 Security and Controls

The personnel division operates the payroll system. Therefore, the payroll system is not for all persons to retrieve. Updating by unauthorized person may be damaging to the system. Security control is provided to save the system. Checking the authority of a person to access the system by using four digits password before entering the system is necessary. And, the program will not show the password keyed in on the screen in order to prevent others from seeing the password.

3.6 Cost/ Benefit Analysis

3.6.1 Cost Analysis

The cost of the proposed system			
Printer dot-matrix 1 unit	*	15,000	bahts
Microcomputer CPU 80486 IN C1 unit	35,000	bahts	
Hard Disk ^{(จิ} ทยาลัยอัส	8 <u>7</u>	4,500	bahts
Software Development Cost			
Software Analysis and Design Cost	=	13,000	bahts
Programming Cost (Microsoft Access 97)	=	7,000	bahts
Installation & Training Cost	=	3,000	bahts
Total development Cost	=	77,500	bahts
Annual operating cost			
Stationary Cost	_	5,000	bahts

Maintenance Cost	-	5,000	bahts
User' annual salary	=	144,000	bahts
(2 user 6,000 bahts each/month)			
Total operating cost	=	154,000	bahts

3.6.2 Benefit Analysis

The benefits of the proposed system have both intangible and tangible sides. Tangible benefits are those to which direct values can be attached or it can be measured in actual dollar term. Intangible benefits are those values that cannot be precisely determined and are the result of subjective judgement. The sum value of costs of items needed to implement the system is known as the cost of the system. The sum value of the saving made is known as the benefit of the new system.

Tangible Benefits

The benefits are shown in terms of reducing cost by year. In manual operation, the personnel division needs at least 4 staff to handle work and average overtime is 30 hour per month per person. The proposed system eliminates redundancy in recording the data and reduces work to personnel and to accounting divisions. Preparing reports takes a few minutes. The new system prints out to reports faster than the manual operation. The proposed system can decrease human errors, such as miss typing to reports. The decreased human errors will save cost, such as papers used in the system. The tangible benefits of the proposed system are as follows:

Excessive staffs' annual salary	=	144,000	bahts
(2persons 6,000 bahts per month)			
Reduction of human error (estimate)	=	6,000	bahts
Indirect cost	_	43,200	bahts
Total annual benefits		193,200	bahts

35

Intangible benefits

Payroll System can improve service to all employees. We can compute the salary and prepare all time reports. In keeping a records and computing net pay, it is easy and take a few minute to process all the information, provides timely, accurate and up to date information. More employees means more information to keep record and compute data. The proposed system can help to save time and provide accurately in computing salary and improved efficiency of preparing report. This system has more security because it allows only authorized person to access, edit, and modify information. But the manual system takes a lot of time to process the information and preparing report takes a day or a week.

The benefit of the proposed system is that it increases the efficiency of the payroll system process. A formal quantitative analysis of the benefit can probably be calculated as follows.

3.6.3 Payback Analysis

The time it takes for the initial investment to be recovered in terms of future cash flows; also referred to as payoff period. In this project, the discount rate is assumed to be 8%. Table 3.1 illustrates the proposed system's payback analysis, and Figure 3.7 shows the proposed system's payback period.

Table 3.1. The Proposed System's Payback Analysis. (Unit=Bahts)

Coch Flow			Year	ar		
Cash LIUW	0		2	3	4	5
Development	-77,500.00					
Operating cost		-154,000.00	-154,000.00	-154,000.00	-154,000.00	-154,000.00
Discount cost	1	0.926	0.857	0.794	0.735	0.681
Time adjusted cost		-142,604.00	-131,978.00	-122,276.00	-113,190.00	-104,874.00
Cumulative time adjusted cost	-77,500.00	-220,104.00	-352,082.00	-474,358.00	-587,548.00	-692,422.00
	8-7	RO		5		
Benefit derived from operatio	30	193,200.00	193,200.00	193,200.00	193,200.00	193,200.00
Discount factor	9 N	0.926	0.857	0.794	0.735	0.681
Time adjusted benefits	11N 81	178,903.20	165,572.40	-153,400.80	142,002.00	131,569.20
Cumulative time adjusted cost	0, 0	178,903.20	344,475.60	497,876.40	639,878.40	771,447.60
	E 1					
Cumulative lifetime: time adju development cost +time adjust	-77,500.00	-41,200.80	-7,606.40	23,518.40	52,330.40	79,025.60
	ลัมขั้ร	ABRIEL		Tr		

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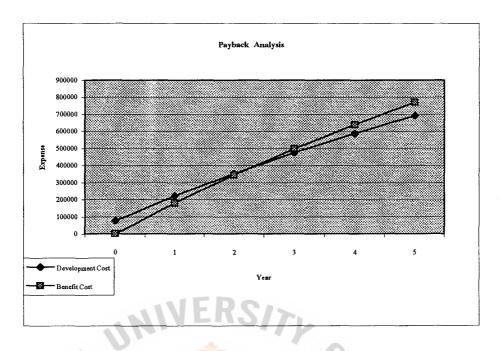


Figure 3.7. The Proposed System's Payback Period.

3.6.4 Return-on-Investment Analysis

The return-on-investment analysis is a technique to compare the lifetime of alternative solutions or projects. The ROI can be calculated from the formula below.

The ROI of the proposed system can be calculated from Table 3.1

ROI =
$$\frac{(692, 422 - 771, 477.60)}{771, 477.60}$$

= 0.10
= 10%

1900-20248

3.6.5 Net Present Value

The net present value of an investment can determine whether the project or the proposed system is worth developing or not. If the net present value of the system is positive, it means that the investment is good. Otherwise, the system should not be implemented. The net present value can be calculated by the sum of the discounted costs from the sum of discounted benefits.

The net present value of the proposed system can also be calculated from Table 3.1.

NPV = 771,447.60 - 692,422 = 79,025.60

3.6.6 Break-Even Analysis

The break-even analysis is analyzed on the point of total costs of the proposed system and the total costs of the existing system. It represents when the system becomes profitable for the business.

The costs of the manual system are as follows.	1		
Staff' annual salary	HA	288,000	bahts
(4 persons 6,000 baht each per month)	F		
Overtime cost	A	43,200	bahts
(average 30 hour 30 baht each per hour)	6		
LABOR			

331,200

bahts

Table 3.2 compares the cumulative cost of the proposed system with the cumulative cost of the manual system. In Table 3.2, the starting period of operating cost comes from the operating cost of the existing system. Figure 3.8 estimates the break-even point of the proposed system.

Total annual cost of the manual system

			Y	Year		
Cash Flow	0	1	2	3	4	5
Proposed System		211 A				
Development costs	-77,500.00	MINSS	'Ad			
Operating costs	331,200.00	154,000.00	154,000.00	154,000.00	154,000.00	154,000.00
Discount factor	م1 ×	0.926	0.857	0.794	0.735	0.681
Time adjusted costs	408,700.00	142,604.00	131,978.00	122,276.00	113,190.00	104,874.00
Cumulative time adjusted costs	408,700.00	551,304.00	683,282.00	805,558.00	918,748.00	1,023,622.00
	5	No HE				
Manual System	s n	250		N		
Operating costs	331,200.00	331,200.00	331,200.00	331,200.00	331,200.00	331,200.00
Discount factor	5 . 01 2	0.926	0.857	0.794	0.735	0.681
Time adjusted costs	331,200.00	306,691.20	283,838.40	262,972.80	243,432.00	225,547.20
Cumulative time adjusted costs	331,200.00	637,891.20	921,729.60	1,184,702.40	1,428,134.40	1,653,681.60
	VINCIT *	S1 GABRIEL	R	SITY		

Table 3.2. The Break - Even Analysis. (Unit=Bahts)

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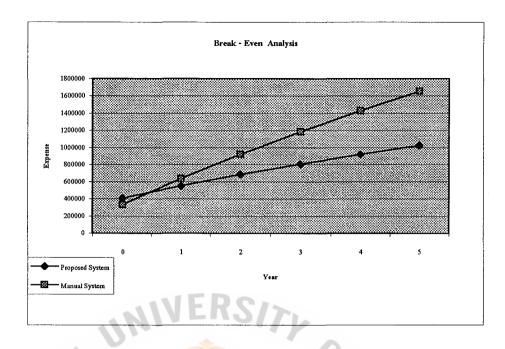


Figure 3.8. The Proposed System's Break-Even Analysis.

After several cost-benefit analysis techniques have been used, it can be concluded that the proposed system is worth developing. From the payback analysis, the payback period of the system is approximately less than 3 year. That is, the benefits of the system will recover the costs after the system has been developed for 3 year. Moreover the return-on-investment of the system is 10%. This means that after 5 years of system operation or project lifetime, the return of the system investment is also high or 10% of the costs. Finally, the net present value of the system is positive. In conclusion, the proposed system is a good investment for the Payroll System.

IV. PROJECT IMPLEMENTATION

4.1 Selected Tools for Development Payroll System

Microsoft Access provides many facilities that can be applied to the employee requirements of the developed payroll System. There are tools for developing database, queries, and screen templates and which can be composed with menus provided for each operation such as data entry, data correction, data inquiry, and report generation, etc. This tool provides the facilities for the programmers to generate all input and output as declared in the program specification. Furthermore, this tool provides facility to develop database and define relationship for each table that is used in the system. This tool can generate sample part of data dictionary. It makes this program easy to use and very user friendly. It will make the users easily to learn how to use the program.

4.2 Testing and Implementation

4.2.1 Testing of the new system has the following subtasks.

- (a) Testing individual program: which is actually completed during the programming task.
- (b) Creating test data: is to test both valid and invalid data, test error routines, test normal processing routines and create all the possible real-life situations that can happen.
- (c) Link testing: for this payroll program also links all the programs and test run the data through each program.
- (d) System testing: the entire system must be run. The objective of the testing is to verify that programs meet the original programming specifications. To ensure that the computer operation staff has adequate documentation to run the system, and make sure that the entire system functions as a whole when all the programs are interconnected with the files and the inputs/outputs.

- (e) Backup and restart testing: we have the backup program to prevent the case of system break down.
- (f) Complete the documentation

4.2.2 Implementation

This is the point at which the overall systems are run, interfaced with the different files and data. Implementation of the new system requires a parallel conversion. The subtasks that are performed during the implementations phase are:

- (a) Training users: training users to use the new system, explaining how to use the application program with the user manual, telling user the details of how to use each program, how to key in the data and the meaning of each field.
- Writing procedures: explaining what is to be done, who is supposed to de it, (b) and how it will be done. This subtask is included in the user manual.
- Showing detail in Appendix: user manual screen and report. (c)

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Following up during the follow up. We must check that all the output is (d) correct by comparing the old data with the new output data.

The Project Plan may be given in terms of the Gantt Chart. See Table 4.1. ลลัมขัญ

Activities		Ju	ıly			Au	gust		5	Septe	embe	er		Oct	ober	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
System Analysis																
- Identify	*	*	*													
- Develop physical DFD of existing			*	*												
system																
- Identify the contents of existing data				*	*											
store															_	
Detail Analysis and Design :																
- Define new system requirements	*	*)*(-												
- Design new system			*	*	*											
* Data flow system		2			*											
* Data dictionary				_		*										
* Data store			-				*									
* Screen interface (input, output)		4					*	*								
Implementation			L													
- Screen Layout	X	D	S			SV,	*	+		Ļ						
- Report Layout		_			AF	RI	L		*	*						
- Data conversion	ß	8	5	5	1						*	*				
- Training	X	F		5	/IN	СП						*	*			
- Production	M	NI/							*				*	*		
- Documentation	С	E 1	90	59	2	2º	5	2						*	*	*
- ISNO	าล์	2	12	6	64			L	L		L	L	L	J		

Table 4.1.Project Development Plan.

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V. CONCLUSIONS AND RECOMMENDATIONS

5.5 Conclusions

As business is expanding rapidly day by day, and number of employees is numerous which increases the workload of the personnel division.

This system development project is developed for the KK Engineering System Co., Ltd. The area under study is the personnel division with which the existing manual procedure is quite inefficient. Work or decision-making cannot be done efficiently when the information is not up-to-date. The proposed computerized information system can solve those problems because it can provide several benefits such as save time and eliminate the redundant operations; information can be shared among several users and provide timely and accurate information.

After you read through this project, you will know how to operate the Payroll System for KK Engineering System Co., Ltd. The users can use this system by first entering the passwords, which are different among the levels of management and each level uses this system in different manners according to be responsibility of the user. If the user enters the correct password, the system will allow the user to go to the main menu, which can be divided into sub-menus. Each sub-menu can be selected by using the arrow key in moving the highlight to the choice he or she wants to process. The output of this system can be displayed on the screen and reported. The frequency of the report depends on the inquiry of the user.

The new system, after we designed from the manual to be the computerized, can be kept in the well organized from so it can reduce the data redundancy and is easy to the search record. This system finally increases the efficiency of the present work and maximizes the utilization of the resources. It can control the workflow. Furthermore, this system can support the expansion of the company in the future.

5.2 Recommendations

Developing the computerized system for the Payroll System. It can solve many problems within the division. In the long term, strategic planning will need information about the quantity and quality of the work force that is available to achieve the company's goals. Manpower planning serves this purpose. This type of planning involves identifying the payroll information needs to meet the organizational objectives specified in the strategic plan. This means forecasting the supply and demand of the required work force. The information is both internal and external.

Strong recommendations for this system are:

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- (a) All systems in the organization ought to be linked and ought to shared information, so standard file and data base designs are important.
- (b) Inquiry menus should be increased support management level in manpower planning such as having many files selection for their own selection.



Data Dictionary

Enter New Date

Enter new date

Company Information

Company Name

Address

Telephone

Tax ID

Social ID

Edit Attendance

Date of Adjust Employee_ID Overtime_100% Overtime_150% Overtime_300%

Per diem

Late Sick Leave

Business Leave

Absent

Other Deduction

Employee Information

Employee_ID

Dept_ID

Entering the current date in transaction

Name of company Company address Telephone number of company Company Tax Identification Company Social Security

Date of Adjustment Employee Identification Total hour of overtime at rate 100% Total hour of overtime at rate 150% Total hour of overtime at rate 300% Extra pay for employee survey work area at

Total minute late Total number of sick leave Total number of business leave Total number of absent Other deduction cost for compute salary Employee Identification

Department Code

province

Data Dictionary

Division ID **Division** Code Position Position of position Name **Employee** Name Surname **Employee Surname** Sex Sex of employee Status Employee Status (employed of resigned) Birth Date Employee Birth date Date of employed employee Date of Employed Date of Terminate Date of employee terminate Employee home address Home Address Bank Code Code of Bank Bank Account number of employee Account No Salary Current salary Citizen Identification of employee Citizen Tax identification of employee Tax No Social No Social Identification of employee Number of kids at school Kids at school Number of kids not at school Kids not at school Marital Status Marital status of employee Department Dept ID Department Code Dept Name Department Name Division Division ID Division Code

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Data Dictionary	
Division_Name	Division Name
Bank Code	
Bank Code	Code of Bank
Bank Name	Bank Name
<u>Tax Table</u>	
1 - 50,000 - 0%	If net income per year after deduction
UNIVE	of allowance is lower than 50,000, there is no need to pay tax
50,001 - 100,000 - 5%	If net income per year after deduction
	of allowance is between 50,001-100,000
	bahts calculate tax at 5%
100,00 = 500,000 - 10%	If net income per year after deduction
BROTHERS	of allowance is between 100,001-500,000
LABOR	bahts calculate tax at 10%
500,001 - 1,000,000 - 20%	If net income per year after deduction
^{จัง} หาวิทยาลั	of allowance is between 500,001-1,000,000 bahts calculate tax at 20%
1,000,001 - 4,000,000 - 30%	If net income per year after deduction of
	allowance is between 1,000,001-400,000
	bahts calculate tax at 30%
> - 4,000,001 - 37%	If net income per year after deduction of
	allowance is more than 4,000,001 bahts
	calculate tax at 37%

Data Dictionary

Adjust Salary

Employee_ID

Date of adjust

Adjust Salary

Prior Salary

Employee Identification Date of salary adjustment New salary Old salary





Hierarchy plus Input-Process-Output (HIPO) is a technique for documenting programming system. An overview HIPO diagram is one of its kinds used to provide general information about a particular system. The overview diagram describes the inputs, processes, and outputs of the system procedures to determine program functions for coding purposes. The procedures of the proposed system to be described are as follows:

- (1) Hipo Chart of Payroll System (See Figure B.1)
- (2) Verify Employee File (See Figure B.2)
- (3) Monthly/Pretest Employee (See Figure B.3)
- (4) Time Keeping (See Figure B.4)
- (5) Computing Salary (See Figure B.5)
- (6) Salary (See Figure B.6)
- (7) Calculate Overtime (See Figure B.7)
- (8) Calculate Social Security (See Figure B.8)
- (9) Gross Pay (See Figure B.9)
- (10) Tax (See Figure B.10)
- (11) Calculate Total Income Per Year (See Figure B.11)
- (12) Calculate Allowance (See Figure B.12)
- (13) Calculate Tax Rate (See Figure B.13)
- (14) Calculate Net Pay (See Figure B.14)
- (15) Report (See Figure B.15)
- (16) Key in Transaction (See Figure B.16)
- (17) Print Slip Payment (See Figure B.17)
- (18) Cash Deposit to Bank (See Figure B.18)
- (19) Print Summary (See Figure B.19)

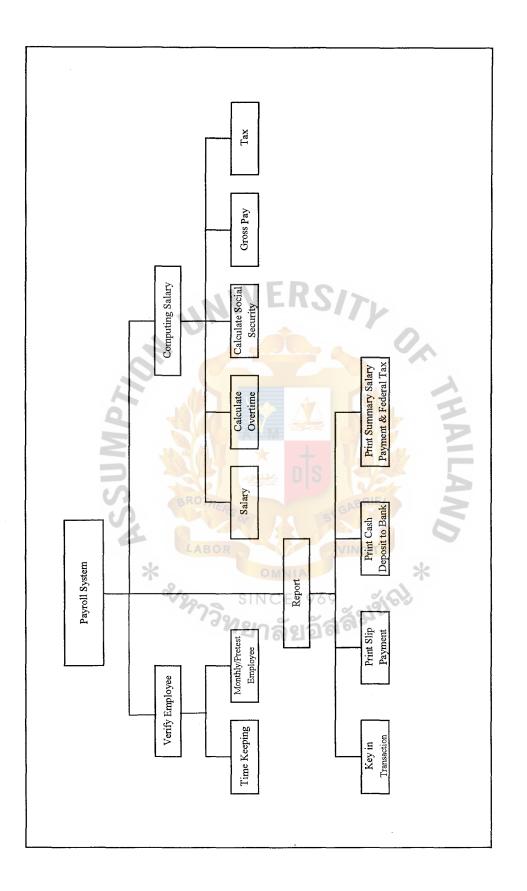
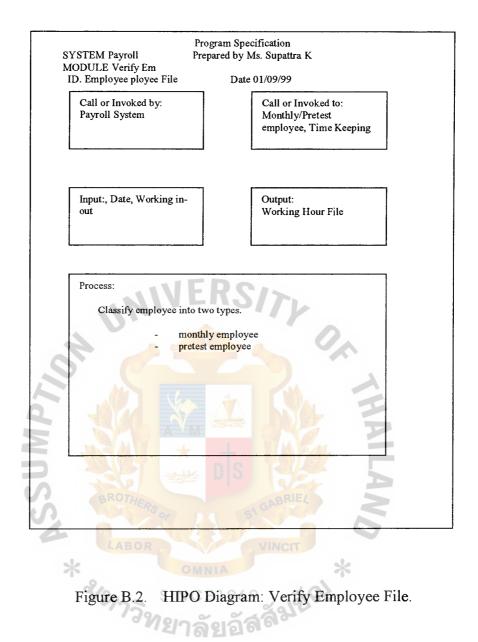


Figure B.1. Hipo Chart of Payroll System.



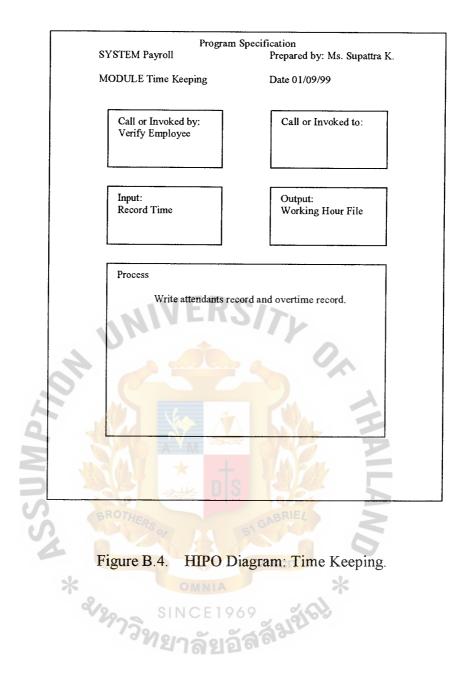
Program Specification SYSTEM Payroll Prepared by Ms. Supattra K.							
MODULE Monthly	MODULE Monthly employee Date 01/09/99						
Pretest employe	e						
Call or Inv Verify Emp		Call or Invoked to:					
Input: ID. Employ Working in	vee, Date, 1-out.	Output: Record Time					
Process: Classify employee into two types. - Monthly employee - Pretest employee							
F	*						
	* -						

Figure B.3. HIPO Diagram: Monthly/Pretest Employee. 1 3

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Program Specification									
SYSTEM Payroll	Prepared by: Ms. Supattra K.								
MODULE Computing Salary	Date 01/09/99								
Call or Invoked by: Payroll System	Call or Invoked to: Salary, Cal. OT., Cal. Social Security, Gross Pav, Tax								
Input: Working Hour File, Personal File, Tax Rate, Leave Approval File	Output: Salary Record								
Figure B.5. HIPO Diagra	ate Salary ate overtime ate social security ate gross pay ate tax								
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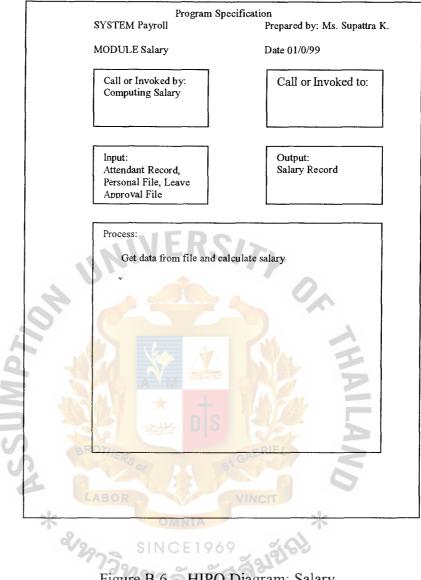


Figure B.6. HIPO Diagram: Salary.

Progra	m Specification
SYSTEM Payroll	Prepared by: Ms. Supattra K.
MODULE Calculate	Overtime Date 01/09/99
Call or Invoked by: Computing Salary	Call or Invoked to:
Input: Salary record	Output: Overtime Record
Process: Get data from working Calculate overtime	hour file and salary record
Figure B.7. HIPO D	iagram: Calculate Overtime.
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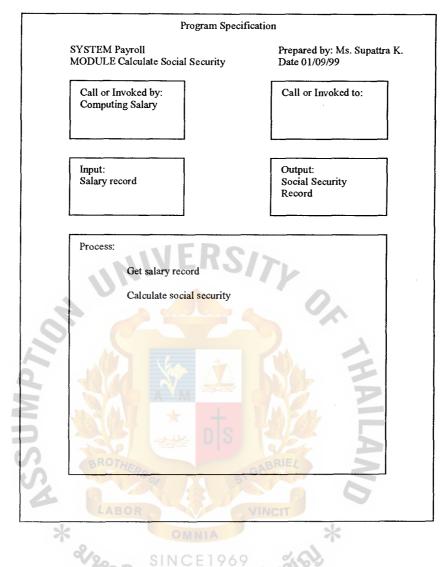
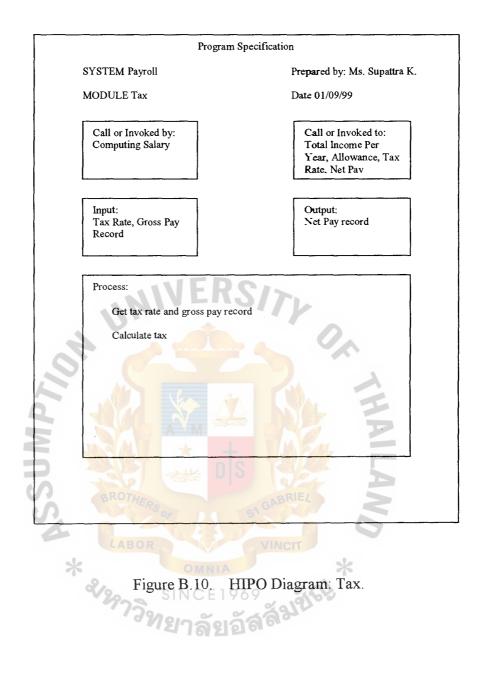


Figure B.8. HIPO Diagram: Calculate Social Security.

Pro	gram Specification
SYSTEM Payroll	Prepared by: Ms. Supattra K.
MODULE Gross Pay	Date 01/09/99
Call or Invoked by: Computing Salary	Call or Invoked to:
Input: Overtime record, Social Security Record	Output: Gross pay record
Calculate gross pay	Ind social security record

Figure B.9. HIPO Diagram: Gross Pay.



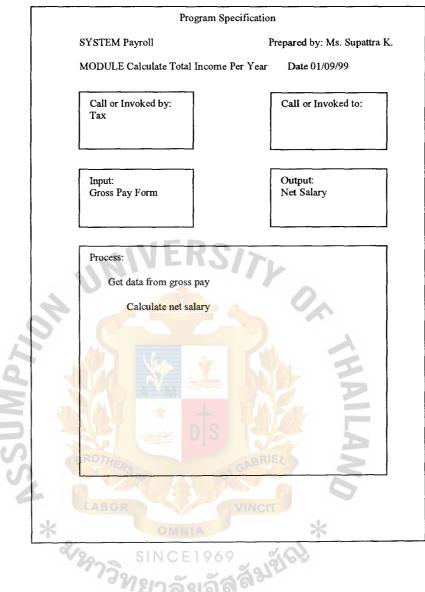


Figure B.11. HIPO Diagram: Calculate Total Income Per Year.

	Program	n Specification
	SYSTEM Payroll	Prepared by: Ms. Supattra K.
	MODULE Calculate Total Inco	me Per Year Date 01/09/99
	Call or Invoked by: Tax	Call or Invoked to:
	Input: Gross Pay Form	Output: Net Salary
	Process: Get data from gross pay	
10	Calculate net salary	SITYON
	BROTHERS OF	SI GABRIEL
*		×
~		

Figure B.11. HIPO Diagram: Calculate Total Income per Year

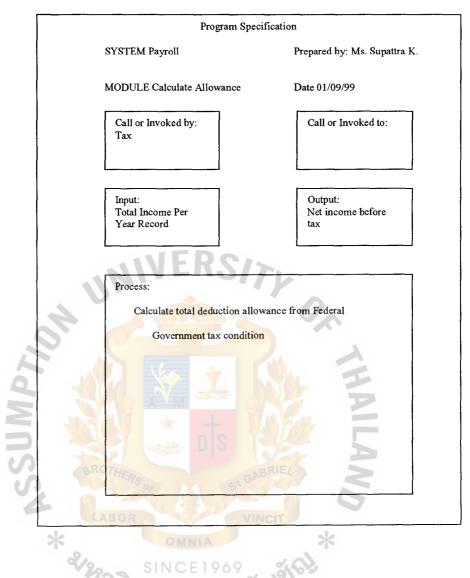


Figure B.12. HIPO Diagram: Calculate Allowance.

SYSTEM Payroll MODULE Calculate Tax Rate	Prepared by: Ms. Supattra K
MODULE Calculate Tax Rate	
	Date 01/09/99
Call or Invoked by: Tax	Call or Invoked to:
Input: Tax Rate File, Allowance Record	Output: Net income before tax, Withholding Tax
Process: Computing net income before	e tax
Computing withholding t	tax
	12. 1
	P P
	5
BROTHERS OF	SI GABRIEL
LABOR	VINCIT

Figure B.13. HIPO Diagram: Calculate Tax Rate.

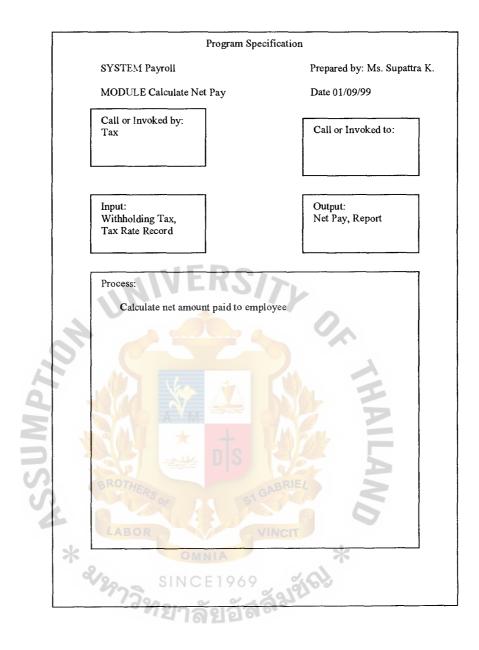


Figure B.14. HIPO Diagram: Calculate Net Pay.

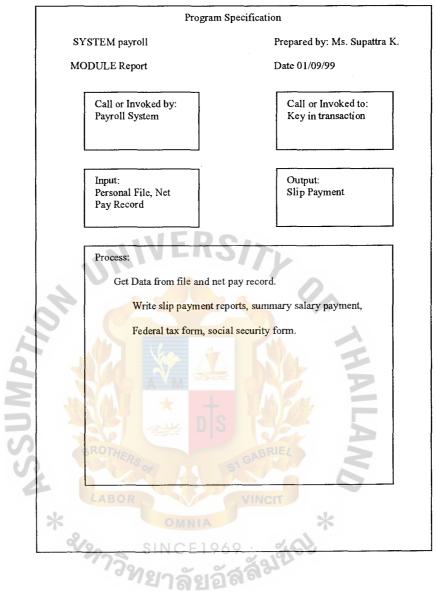


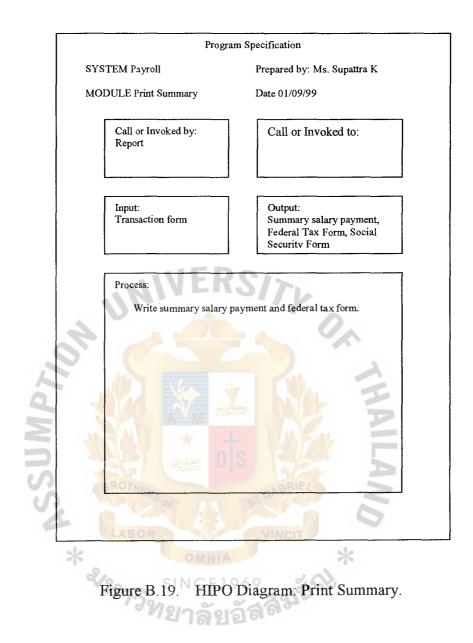
Figure B.15. HIPO Diagram: Report.

Program S	specification
SYSTEM Payroll	Prepared by: Ms. Supattra K.
MODULE Key in Transaction	Date 01/09/99
Call or Invoked by: Report	Call or Invoked to:
Input: Net Pay record	Output: Transaction Form
Process: Get personal file and net pay rea	
Set transaction form.	STY ON THALLA
SKOTHERS of	ST GABRIEL
* OMNUA	*

Figure B.16. HIPO Diagram: Key in Transaction.

Prog	gram Specification
SYSTEM Payroll	Prepared by: Ms. Supattra K.
MODULE Print Slip Payment	Date 01/09/99
Call or Invoked by: Report	Call or Invoked to:
Input: Transaction Form	Output: Slip Payment
Process: Print slip payment	RSITY
BROTHERS	SI GABRIEL
LABOR	VINCIT
Figure B.17. HIPC	Diagram: Print Payment Slip.
	E1969
ั ^ช าวิทยาลั	ัยอัล ล ~

	Program S	pecification	
SYSTEM Pay	roll	Prepared by: Ms. Supattra K.	
MODULE Ca	sh Deposit to Bank	Date 01/09/99	
Call o Repor	r Invoked by: t	Call or Invoked to:	
Input: Transa	ction form	Output: Salary Payment, Social Security	
Process	s: rite salary payment and soc	ial security	
Figure B.18.	HIPO Diagram:	Cash Deposit Payment to Ba	unk.





ALC: NO

This is a design for input and output of data from the proposed system that display on screen. The data items that need to be available or to appear on the screen are developed in the following screen title.

APILAN

- (1) Enter Password (See Figure C.1)
- (2) Payroll System Main Menu (See Figure C.2)
- (3) Enter New Date (See Figure C.3)
- (4) Company Information (See Figure C.4)
- (5) Update Menu (See Figure C.5)
- (6) Update Employee Information (See Figure C.6)
- (7) Update Department Information (See Figure C.7)
- (8) Update Division Information (See Figure C.8)
- (9) Update Bank Information (See Figure C.9)
- (10) Update Tax Table (See Figure C.10)
- (11) Update Adjust Salary (See Figure C.11)
- (12) Attendant (See Figure C.12)
- (13) Report Menu (See Figure C.13)
- (14) Employee Report (See Figure C.14)
- (15) Slip Payment (See Figure C.15)
- (16) Social Security Form (See Figure C.16)
- (17) Federal Income Form (See Figure C.17)
- (18) Summary Salary (See Figure C.18)

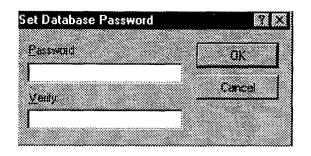


Figure C.1. Enter Password.

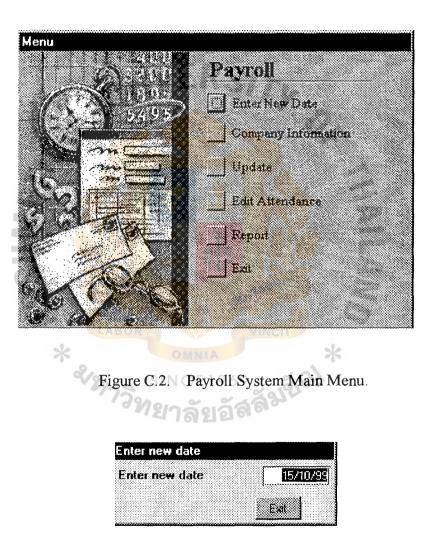


Figure C.3. Enter New Date.

Company Information		
Company Name	KK Engineering System Co.,Ltd.	J
Address	44/22-23 New Road 31, Samphanta	awong Bkk 10100
Telephone	7127000]
Tax ID Social_ID:	<u>111111111</u> <u>11-11111111</u>	sa I

Figure C.4. Company Information.



Figure C.5. Update Menu.

	Employee Informa	tion	
Émployee ID		Bank,Code	006
Dept_ID	001	Accounting	1542542856
Division_ID	0101	Salary	6.000.00
Position:	Personnel	Citizen ID	2 5461 85215 21 3
Name	:Mis: Apinya	Tax No	.2255516225
Suname	Kongkang	Social No	40 2631523 1
Sex	F (M=Male, F=Female)	Kids at school	1
Status	1 [1=Employed 2=Resign]	Kids not at school	2
Birth Date:	25/04/85	Marital Status	2 (1=Single,
Date of Employed	01/06/99		2«M Spouse Working 3»M-Spouse Not Work
Date of Terminate			4=₩idow)
Home Address	451 New goad 31 Rd, Samphantawo	ng, 6kk.	



Figure C.7. Update Department Information.

Division				
Division_1D	0101			
	÷			
Division_Name	Person	iel		
			Exi	
Record H	1	1 > + .	¥ 9	

Figure C.8. Update Division Information.

Bank Code		-		
Bank Code			, .	
Bank Name	Bang	jkok Bank		
			Exat	
Record: 14		» [»1 [»*		

Figure C.9. Update Bank Information.



Figure C.10. Update Tax Table.

Adjust S	Salary 🌾
Employee_ID	22028
Date of adjust	0/1/99
Adjust Salary	36,000.00
Prior Salary	33,000.00
	Exit
Record 14	

Figure C.11. Update Adjust Salary.

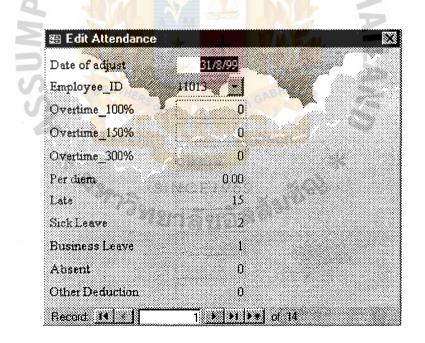
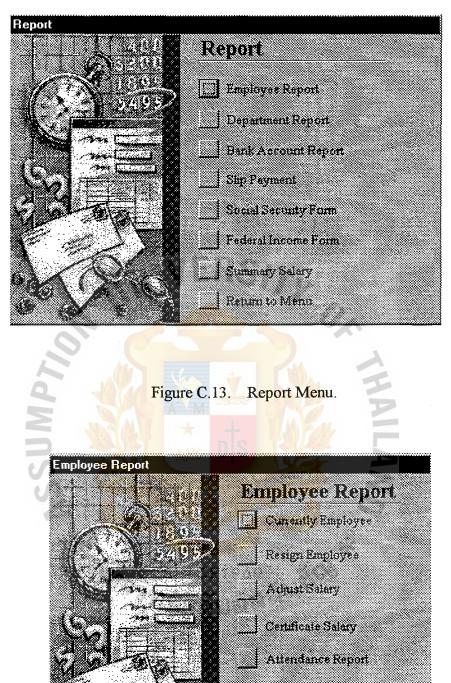


Figure C.12. Edit Attendant.



- Employee Information
- Pretest Working

Return to Report

Figure C.14. Employee Report.

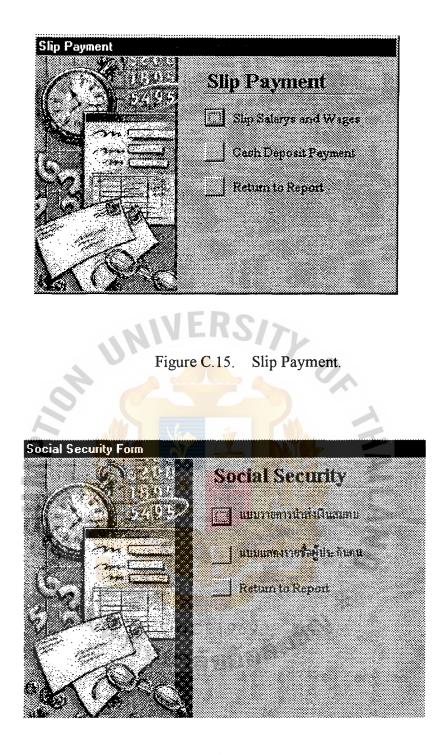
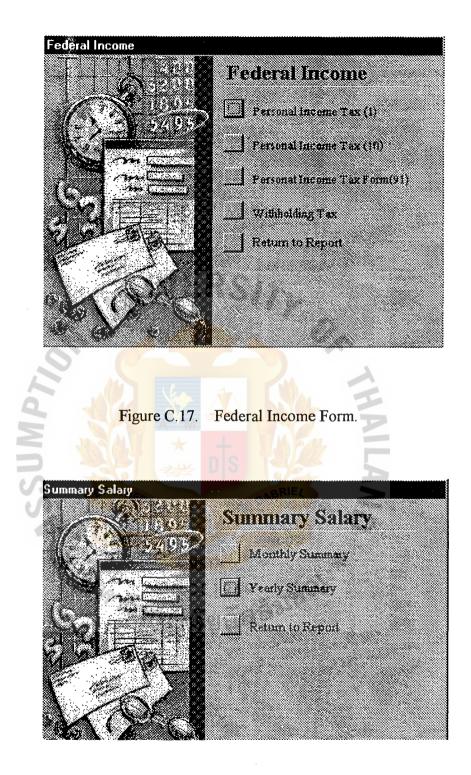
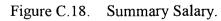


Figure C.16. Social Security Form.





APPENDIX D

SITY

SAMPLE OUTPUT OF THE PROPOSED SYSTEM



The proposed system can generate the output reports as listed below

- (1) List of Employee (See Figure D.1)
- (2) Current Employee(See Figure D.2)
- (3) Resign Employee(See Figure D.3)
- (4) Adjust Salary(See Figure D.4)
- (5) Certificate Salary(See Figure D.5)
- (6) Attendance Report(See Figure D.6)
- (7) Department Report(See Figure D.7)
- (8) Bank Account Report(See Figure D.8)
- (9) Slip Salary and Wages(See Figure D.9)
- (10) Cash Deposit Payment(See Figure D.10)
- (11) Submit Form of Social Security (See Figure D.11) Cover Form

- (12) Submit Form of Social Security (See Figure D.12) Detail
- (13) List of Employee in Social Security Act(See Figure D.13)
- (14) Personal Income Tax(1) (See Figure D.13) Cover Form
- (15) Personal Income Tax (1) (See Figure D.15) Continue Form
- (16) Personal Income Tax (1n) (See Figure D.16) Cover Form
- (17) Personal Income Tax (1n) (See Figure D.17) Continue Form
- (18) Personal Income Tax Form (91) (See Figure D.18)
- (19) Withholding Tax(See Figure D.19)
- (20) Monthly Summary(See Figure D.20)
- (21) Yearly Summary(See Figure D.21)
- (22) Employee Information(See Figure D.22)
- (23) Pretest Working(See Figure D.23)

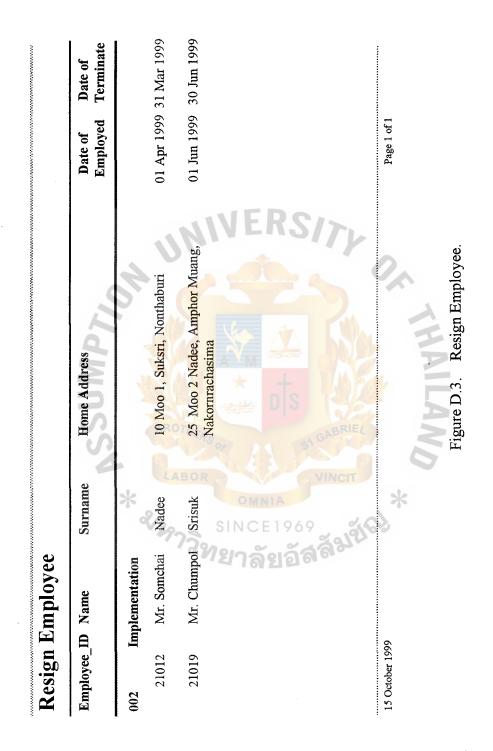
Employee List

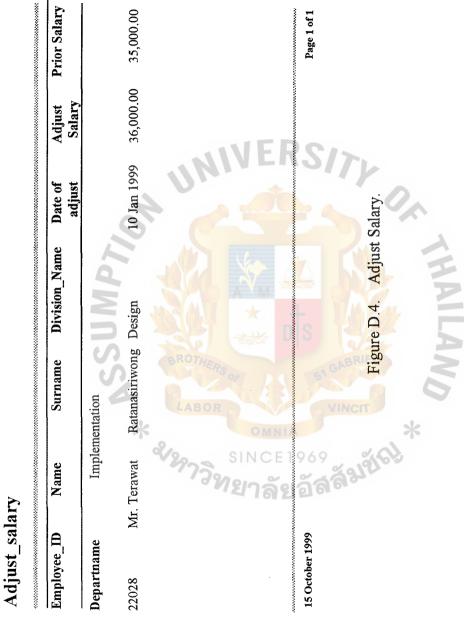
Employee_ID	Name	Surname	Position	Salary
Department	Administ	ration		
11013	Mrs. Apinya	Kongkang	Personnel	6,000.0
11016	Miss Suluckana	Verasatein	Personnel	6,000.00
12027	Mr. Wuthichai	Yingyong	Finance	13,000.0
13035	Miss Pasuk	Taechapongpipat	Accounting	12,000.0
Department	Business	Develop		
31005	Mr. Varakorn	Suprawan	Manager	28,000.0
Department	Impleme	ntation ERS/	71.	
21012	Mr. Somchai	Nadee	Worker	6,500.0
21015	Mr. Krisana	Manamuti	Site Engineer	25,000.0
21019	Mr. Chumpol	Srisuk	Foreman	7,500.0
22028	Mr. Terawat	Ratanasiriwongw	Manager	36,000.0
92201	Mr. So <mark>msak</mark>	Kornchana	Draftman	4,500.0
Department	Logistic		USEAN I	
41015	Mr. Verasak	Verasatein	Warehouse	6,500.0
	BROTHER		ABRIEL	
	A LABOR			7
	*		*	
15 October 1999		SINCE1969		Page 1 of 1
	1.28	้ 1ยาลัยอั ส ์	á21-	-

Figure D.1. List of Employee.

Employee_ID Name	D Name	Surname	Home Address	Date of Employed
001 /	Administration	NSSI	JMP7/	
11013	Mrs. Apinya Kongkang	Kongkang	451 New road 31 Rd., Samphantawong, Bkk. 01 Jun 1999	01 Jun 1999
11016	Miss Suluckana Verasatein	l Verasatein	285 Charansanitwong Rd., Bang-phat, Bkk.	16 Jan 1997
12027	Mr. Wuthichai Yingyong	Yingyong	41/1 Lardprao 84, Lardprao, Bkk	01 Dec 1998
13035	Miss Pasuk	Taechapongpip	Taechapongpip 10 Khaolarm, Samphantawong, Bkk.	01 Feb 1999
003]	Business Development	ent		
31005	Mr. Varakorn	Suprawan	250 Sukaphiban 1, Bangkapi, Bkk.	16 May 1998
002	Implementation		R	
21015	Mr. Krisana	Manamuti	22/4 Sahamith, Bang-ruk, Bkk.	16 Mar 1997
22028	Mr. Terawat	Ratanasiriwong	Ratanasiriwong 26/1 Ladprao Rd., Ladprao, Bkk.	01 Jul 1999
92201	Mr. Somsak	Kornchana	744 Soi Vanich 2, Sampahntawong, Bkk.	01 Aug 1999
004	Logistic		0	
41015	Mr. Verasak Verasatein	Verasatein	125 Yaowarad Rd., Samphantawong, Bkk.	01 Sep 1999

Figure D.2. Currently Employee.





KK ENGINEERING SYSTEM CO.,LTD. 44/22-23 New Road 31, Samphantawong Bkk 10100 Tel: 7127000

Certificate Salary September 30, 1999

To: whom it may concern

This is to certify that Mr. Teerawat Ratanasiriwongwut has been employed with the KK ENGINEERING CO.,LTD. As Manager in Design department since May 1, 1997 until September 30, 1999 with monthly basic salary Baht 36,000 (Thirty Six Thousand Baht Only)

For and on behalf of KK ENGINEERING CO., LTD.

Figure D.5. Certificate Salary.

			20000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	000000000000000000
Since	1/9/99 to	30/9/99			~		
Employee_ID	D Name	Surname	Per diem	Late	Sick Bus Leave I	Business Leave	Absent
Department 001	วิข	Administration					
11013	Mrs. Apinya Kongkang	Kongkang	00.00	30	0	0	0
11016	Miss Sulucka	Verasatein	250.00	60		2	2
12027	Mr. Wuthicha Yingyong	Yingyong	00.0	0	0	0	0
13035	Miss Pasuk	Taechapongpip	0.00	4	2	2	0
Department 003	ă	Business Development	ent	K	17		
31005	Mr. Varakorn Suprawan	Suprawan	00.00	0	0	7	0
Department 002		Implementation	A.		0		
21012	Mr. Somchai Nadee	Nadee	0.00	30	1	0	0
21015	Mr. Krisana	Manamuti	00.0	0	0	0	0

Figure D.6. Attendance Report.

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Department

Department_ID	Department Name
001	Administration
002	Implementation
003	Business Development
004	Logistic



Figure D.7. Department Report.

Bank Account

Bank Code	Bank Name
002	Bangkok Bank
004	Thai Farmer Bank
006	Krungthai Bank



Figure D.8. Bank Account Report.

NIVERSITY

PAY SLIP FOR THE MONTH OF
EMPLOYEE NO. 2202830 September 1999DEPT NO.002NAMEMr. Terawat Ratanasiriwongwut

THE MILE	WII. I Clawa Ratalia	Shiwongwat		
EARNING	OVERTIME	OTHER / BONUS	GROSS PAY	TOTAL INCOME
36,000.00				36,000.00
INCOME TAX	ABSEN, LATE	OTHER DEDUCT	SOCIAL SECURITY	TOTAL DEDUCTION
2,141.67		ne la	300.00	2,441.67
ACCUM-REV	ACCOUM-TAX		Ly D	NET PAY
324,000.00	19,275.03	GI GAB	RIEL 2	33,558.33

Figure D.9. Salary and Wages Slip.

at the end of	30 Septer	nber 1999		
Employee_ID	Account No	Name	Surname	Net pay
Bank Name	Bangkok]	Bank		
11016	1037584201	Miss Suluckana	Verasatein	5,880.00
12027	1522222021	Mr. Wuthichai	Yingyong	12,740.00
21015	1530120210	Mr. Krisana	Manamuti	23,637.50
21019	1456224142	Mr. Chumpol	Srisuk	7,462.50
	NN		Total	49,720.00
Bank Name	Thai Farme	r Bank	0	
13035	123456 <mark>7890</mark>	Miss Pasuk	Taechapongpipat	11,793.00
31005	5242152152	Mr. Varakorn	Suprawan	26,400.00
21012	15 <mark>44215212</mark>	Mr. Somchai	Nadee	6,516.25
22028	1542524562	Mr. Terawat	Ratanasiriwongwut	33,558 .33
92201	7 <mark>45</mark> 6130301	Mr. S <mark>omsak</mark>	Kornchana	4,477.50
5	BROTH		Total	82,745.08
Bank Name	Krungthai	Bank A Star		• · · · · · · · · · · · · · · · · · · ·
11013	1542542856	Mrs. Apinya	Kongkang	5,880.00
41015	2032141242	Mr. Verasak	Verasatein	6,467.50
	& 2973y	SINCE1060	Total	12,347.50

.....

15 October 1999

Page 1 of 1

.....

Figure D.10. Cash Deposit Payment.

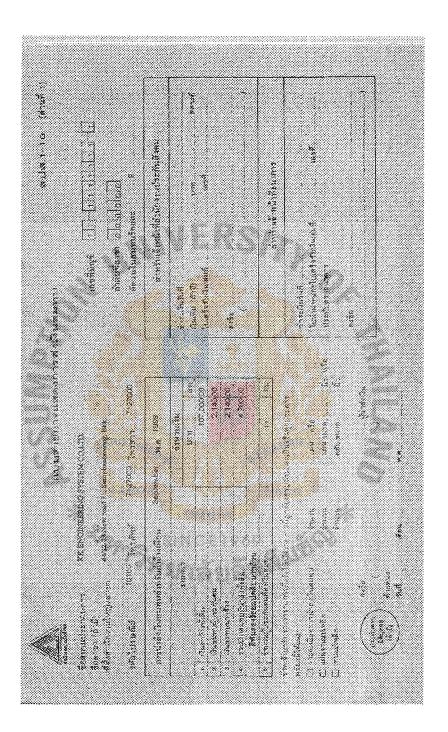


Figure D.11. Submit Form of Social Security (Cover Form).

Наватичентация KK ENGINEERING SYSTEM CO, LTD. меліліяни 11111111 Фаланствитация KK ENGINEERING SYSTEM CO, LTD. Феліліяни 11111111 Маланствитация КК ENGINEERING SYSTEM CO, LTD. Феліліяни 00000 Маланствитация КК ENGINEERING SYSTEM CO, LTD. Феліліяни 00000 Маланствитация 2 3 4 Indiation 2 3 4 130000 Indiation 1 40-289523-1 Mrs. Aplinya Kongkang 1560 Julnu 1560.00 Indiation 3 41-284844-5 Mrs. Aplinya Kongkang 1560.00 130000 Indiation 3 41-28484-5 Mrs. Aplinya Kongkang 15600.00 130000 Indiation 3 41-28484-5 Mrs. Aplinya Kongkang 15,000.00 130000 Indiation 3 41-28484-5 Mrs. Aplinya Kongkang 15,000.00 130000 Indiation 3 41-28484-5 Mrs. Muthichai Yingyong 15,000.00 100000						
KK ENGINEERING SYSTEM CO.,LTD. ทั้งที่น่วสงเวินสมบบ กรอกรายการให้ครบถ้านอนการให้ครบถ้านอน สังคม สีง - สีงสการผู้ประกับคน สังคม สีงคน สังคม สีงคารผู้ประกับคน สังคม สีงคารพระคม สังคม สีงคารพระคม สังคม Miss Suluckana ที่ Miss Suluckana Verasatein ที่ Mr. Wuthichai Yingyong ที่ Mr. Varakorn Suprawan ที่ Nadee Manamuti ที่ Mr. Somchai Manamuti ที่ Mr. Somsak Kornchana ที่ Mr. Verasak Verasatein					رع ع	
ทั้งที่น่าส่งเงินสมทบ กรอกรายการให้ครบเกิวนดูกต้อง และชัดเจนด้วยลายนำอตัวบรรจงหรือพื้น สังคน สีรคน สีร รีลสกุลผู้ประกับตน Mrs. Apinya Kongkang Mr. Wuthichai Yingyong Mr. Wuthichai Yingyong Mr. Varakorn Suprawan Mr. Varakorn Suprawan Mr. Chumpol Srisuk Mr. Chumpol Srisuk Mr. Comsak Kornchana Mr. Somsak Kornchana Mr. Verasak			K ENGINEERING SY	(STEM CO., LTD.		
สังคม สีงคม สีล รีลสกุลผู้ประกับตน สังคม สีล รีลสกุลผู้ประกับตน Mrs. Apinya Kongkang Miss Suluckana Verasatein Mr. Wuthichai Yingyong Miss Pasuk Taechapongpipat Mr. Varakorn Suprawan Mr. Somchai Manamuti Mr. Krisana Manamuti Mr. Terawat Ratanasiriwongwut Mr. Somsak Verasatein Mr. Verasak Verasatein	เพื่อประโยชนในการใช้สิทธิขอรับ	ประโยชน์ทดแทนของผู้ประกันตน ทุกครั้งที่นำส่งเงินสมทบ	ารอกรายการให้ครบถ้วนถูกต้อง	และชัดเจนด้วยลายมือตัวบรรจงหรื	เพิ่มพัติด	
~2 3 Isanifilizarilazifusidatu file - filestingitilazifusu Isanifilizarilazifusu Isanifilizarilazi Isanif	ให้แลดงรายการเฉพาะผู้ประกันต	หนที่มีค่าจ้าง ผู้ไม่มีค่าจ้างไม่ต้องแสดง	SUN	IPr.		
เคมที่บัตรประกับสังคมรีล รีลสกุลยู์ประกับสงนเคมที่บัตรประกับสังคม40-2631523-140-2631523-1Mirs. Apinya89-2542548-2Mirs. Suluckana39-1551521-1Miss Suluckana89-1551521-1Mirs. Pasuk73-1551521-1Mirs. Pasuk89-1551521-1Mir. Varakorn89-1551521-1Mir. Somchai84-2501215-2Mir. Somchai84-12501215-2Mir. Somchai84-513131-2Mir. Chumpol84-513131-2Mir. Chumpol89-2222114-1Mir. Somsak80-415223-1Mir. Somsak40-4152223-1Mir. Verasak80-15523-1Mir. Verasak80-15523-1Mir. Verasak80-15523-1Mir. Verasak80-15523-1Mir. Verasak80-15523-1Mir. Verasak80-15523-1Mir. Verasak80-15523-1Mir. Verasak80-145223-1Mir. Verasak	Ł	*2		3	*4	*5
40-2631523-1 Mrs. Apinya Kongkang 10-2631523-1 Mrs. Apinya Kongkang 39-2542548-2 Mrs. Apinya Kongkang 39-2542548-5 Mr. Wuthichai Yingyong 39-1551521-1 Mr. Varakorn Suprawan 39-1551521-1 Mr. Varakorn Suprawan 39-1551521-1 Mr. Somchai Manamuti 34-8571125-1 Mr. Chumpol Srisuk 34-451313-2 Mr. Chumpol Srisuk 40-415223-1 Mr. Verasak Verasatein	96 96 92	เลขณี่รักละ เลขณี่รักละ	(0 	າສາງລະນຳໄສາເ	ต่าจ้าง (ไม่ตำกว่า 1,650 ไม่เกิง	เ เงินสมทบ
40-2831523-1Mrs. ApinyaKongkang39-2642548-2Mrs. SultockanaVerasatein39-2542548-5Mr. WuthichaiYingyong41-2489484-5Mr. WuthichaiYingyong39-1551521-1Mr. WuthichaiYingyong35-2521216-6Mr. WuthichaiYingyong35-2521215-2Mr. VarakomSuprawan34-3827125-1Mr. SomchaiManamuti34-3521125-1Mr. KrisanaManamuti34-3521125-1Mr. ChumpolSrisuk34-3521125-1Mr. SomsakKornchana40-415223-1Mr. VerasakVerasatein				n un traen hailing	15,000)	ประกันตน
39-2542548-2 Miss Suluckana Verasatein 41-2489484-5 Mr. Wuthichai Yingyong 41-2489484-5 Mr. Wuthichai Yingyong 39-1551521-1 Miss Pasuk Taechapongpipat 39-1551521-1 Mr. Wuthichai Yingyong 39-1551521-1 Mr. Wuthichai Yingyong 38-155154 Mr. Varakorn Suprawan 41-2501752 Mr. Somchai Nadee 34-8521125-1 Mr. Krisana Manamuti 34-8521125-1 Mr. Chumpol Srisuk Mr. Chumpol Srisuk Mr. Chumpol 34-8521125-1 Mr. Somsak Kornchana 9-451313-2 Mr. Somsak Kornchana	t	40-2631523-1	Mrs. Apinya	Kongkang	6,000.0	0
41-248948-5 Mr. Wuthichai Yingyong 39-1551521-1 Miss Pasuk Taechapongpipat 39-1551521-1 Miss Pasuk Taechapongpipat 39-1551521-1 Miss Pasuk Taechapongpipat 35-2521215-6 Mr. Varakorn Suprawan 41-2501215-2 Mr. Somchai Nadee 34-8521125-1 Mr. Krisana Manamuti 34-8521125-1 Mr. Chumpol Srisuk 34-4513131-2 Mr. Chumpol Srisuk Mr. Somsak Kornchana 40-415223-1 Mr. Verasak Verasatein	2	39-2542548-2	Miss Suluckana	Verasatein	6,000.0	0
39-1551521-1 Miss Pasuk Taechapongpipat 35-2521215-6 Mr. Varakorn Suprawan 41-2501215-2 Mr. Somchai Nadee 41-2501215-2 Mr. Somchai Manamuti 34-8521125-1 Mr. Krisana Manamuti 34-8521125-1 Mr. Chumpol Srisuk 34-8521125-1 Mr. Chumpol Srisuk Mr. Somska Mr. Chumpol Srisuk 9-451313-2 Mr. Verasak Kornchana 40-415223-1 Mr. Verasak Verasatein	3	41-2489484-5	Mr. Wuthichai	Yingyong	13,000.0	0
35-2521216-6 Mr. Varakorn Suprawan 41-2501215-2 Mr. Somchai Nadee 34-8587824-8 Mr. Krisana Manamuti 34-8521125-1 Mr. Chumpol Srisuk 34-8521125-1 Mr. Chumpol Srisuk 34-513131-2 Mr. Terawat Ratanasiriwongwut 38-2222114-1 Mr. Somsak Kornchana 40-415223-1 Mr. Verasak Verasatein	4	39-1551521-1	Miss Pasuk	Taechapongpipat	12,000.0	0
41-2501215-2Mr. SomchaiNadee34-8521125-1Mr. KrisanaManamuti34-4513131-2Mr. ChumpolSrisuk34-451313-2Mr. TerawatRatanasiriwongwut39-2222114-1Mr. SomsakVerasak40-415223-1Mr. VerasakVerasatein	5	35-2521215-6	Mr. Varakorn	Suprawan	15,000.0	0
34-8897824-8Mr. KrisanaManamuti34-8521125-1Mr. ChumpolSrisuk34-8521131-2Mr. TerawatRatanasiriwongwut34-4513131-2Mr. SomsakKornchana40-4152223-1Mr. VerasakVerasatein	9	41-2501215-2	Mr. Somchai	Nadee	6,500.0	0
34-5521125-1Mr. ChumpolSrisuk34-4513131-2Mr. TerawatRatanasiriwongwut39-2222114-1Mr. SomsakKornchana40-415223-1Mr. VerasakVerasatein	2	34-8987824-8	Mr. Krisana	Manamuti	15,000.0	0
34-4513131-2 Mr. Terawat Ratanasiriwongwut 39-2222114-1 Mr. Somsak Kornchana 40-415223-1 Mr. Verasak Verasatein	8	34-8521125-1	Mr. Chumpol	Srisuk	7,500.0	0
39-2222114-1 Mr. Somsak Kornchana 40-415223-1 Mr. Verasak Verasatein	0	34-4513131-2	Mr. Terawat	Ratanasiriwongwut	15,000.0	0
Mr. Verasak Verasatein	10	39-2222114-1	Mr. Somsak	Kornchana	4,500.0	0
	11	40-415223-1	Mr. Verasak	Verasatein	6,500.0	0
		G			- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	

Figure D.12. Submit Form of Social Security (Detail).

St. Gabriel's Library

แบบแสดงรายชื่อผู้ประกันตน

at the end of 30 September 1999

No.	Social_ID	Name	Surname	Salary
1	40-2631523-1	Mrs. Apinya	Kongkang	6,000.00
2	39-2542548-2	Miss Suluckana	Verasatein	6,000.00
3	41-2489484-5	Mr. Wuthichai	Yingyong	13,000.00
4	39-1551521-1	Miss Pasuk	Taechapongpipat	12,000.00
5	35-2521215-6	Mr. Varakorn	Suprawan	15,000.00
6	41-2501215-2	Mr. Somchai	Nadee	6,500.00
7	34-8987824-8	Mr. Krisana	Manamuti	15,000.00
8	34-8521125-1	Mr. Chumpol	Srisuk	7,500.00
9	34-4513131-2	Mr. Terawat	Ratanasiriwongw	15,000.00
10	39-2222114-1	Mr. Somsak	Kornchana	4,500.00
11	40-4152223-1	Mr. Verasak	Verasatein	6,500.00
	NSSA REAL	HERS OF OMNIA	SI GABRIEL	LAND
5 Octob	per 1999	จิทยาลัย	อลลังใช้เรื่อ	Page 1 of 1

Figure D.13. List of Employee in Social Security Act.

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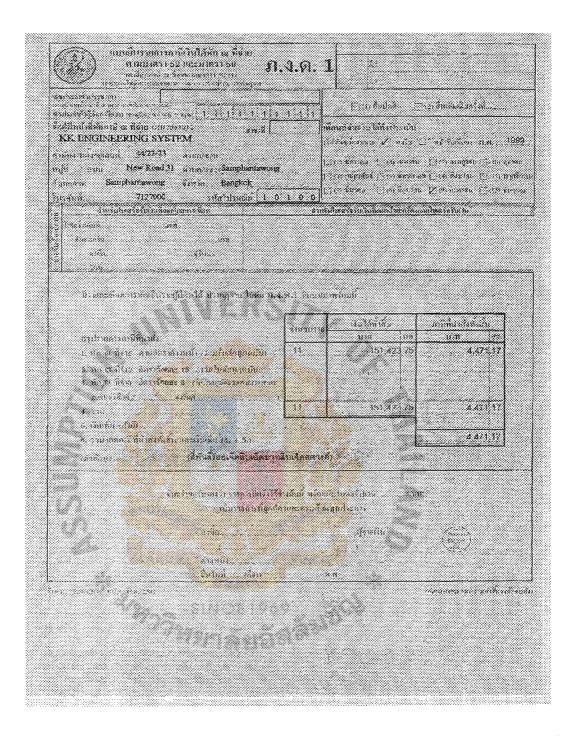


Figure D.14. Personal Income Tax (1n) Cover Form.

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Figure D.15. Personal Income Tax (1) Continue Form.

ลงส่องที่มีประเทณ และสิมปกังสาย อ ชีวร หายังโญชรรรรมน. สงประจำตัวผู้สื่อมาโดยราวสอบเวลา (1111111111 สายวิธีกายี เมาโลกมา (หา/วระงาน): สาขารี่ KK ENGINEERING SYSTEM	Contraction of the second second	รายการการมีเว็บได้ทัก ณ ที	ine diregitlarılı. <u>1999</u>
ามักงามสั่งอยู่เสขที่ <u>44/27.23</u> ครอญชอบ ญที่ มาน New Road 31 ตำบลสมบริทยาpheritavong มกลดขล Samphaniawong จักเว็ค Bangkok ทรสัทท์ 7127000 ราทศไปวหณีอื่ <u>10</u>	<u>100</u>	Ø(1) ⁵ uilnå []]	(2) ชื่นเพิ่มเส้นครั้งที่
ขอขี้แรวออารค่อเจ้าหนักงานประเมินอาซีเริ่มได้ประจำ แสดงการจำยังรีนได้ที่งประเมินดาบมาสรา 40 (1) ปรากฏดามใบต่อที่แนวนากร้อมนี้	E.	ที่เมืองานถามีสรรทยาร์ จังหรืด แล้ว มีระยละเชื่อดอารที	
	ทำนวนราย	เป็นได้ทั่งตั้น บเท อล.	ภาษีพีนำส่งสังสับ มาก ฮอ.
สรุปรายการเกามีที่นำสัง 1. ทัก ณ ที่จ่าย ดูบเกิดราก้าาหน้ะ (รรมใบคอญกุษย์)บ 2. ทัก ณ ที่จ่าย อัตราร้อยถะ 16 (รรมไบต่อมูกอยับ) 3. ทัก แ ที่จ่าย ถัตราร็คณะ 3 (ได้กิดบุแล้งกดรมสรรทศ สมชยภัสอีที่ แม้นกิ่	.11	1.362.813 75	10,240.53
4: 528	11	1,362,813,75	40,240 \$3
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ตนกัญขี่ของผู้ร่ะมงวันได้ที่ร่างในปี พ.ศ. <u>1999</u> เรี	An and a second s	1,362,813 75	
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อื่นวันที่ เคือน		ท.ส	

Figure D.16. Personal Income Tax (1n) Cover Form.

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Figure D.17. Personal Income Tax (1n) Continue.

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KK ENGINEERING SYSTEM CO.,LTD.

ถึง Mr. Terawat Ratanasiriwongwut

เพื่อประโยชน์ในการขึ้นและชำระภาษีเงินได้ประจำปี พ.ศ. 2542 ขอแจ้งให้ท่านทราบ ยอดเงินได้และภาษีเงินได้หัก ณ ที่จ่าย ดังต่อไปนี้

คู่สมรส (WIFE OR HUSBAND) - บุตร กิกลังศึกษา 2 คน - ไม่ได้ศึกษา 1 คน - ทัก เงินประกัน สังคม (SOCIAL SECURITY) 2,700.00 ทัก เงินประกัน (INSURANCE) 10,000.00 ทัก เงินประกัน (INSURANCE) 102,700.00 ทัก เงินประกัน (INSURANCE) 102,700.00 ทัก กองทุนส์วรองเสี้ยงชีพ (PROVIDENT FOUND) 102,700.00 ลดหย่อมทั้งสิน (TOTAL DEDUCTION) 102,700.00 (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) 102,700.00 (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ เสีย 1 500,000 10% 100,001 500,000 10% 100,001 500,000 10% 1,000,001 4,000,000 20% 1,000,001 99,999,999,999 37% รวมเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินกาษีที่คำนอณจากเงินได้สุทธิ (MITHHOLD TAX) 19,275.03	(1)	เงินได้ (EARNING)	324,000.00
หัก กองทุนเลี้ยงรีพ (ส่วนที่เกิน 10,000 แต่ไม่เกิน 290,000) 324,000.00 เงินได้คงเหลือเพื่อคำนวณภาษี 324,000.00 (2) รายการหักค่าไร้จ่ายและหักลดหย่อน (DEDUCTION) 60,000.00 ทำใร้จ่ายในการแหมา 40% (แต่ไม่เกิน 60,000 บาท) 60,000.00 (INDIVIDUAL ALLOWANCE DEDUCTION 40% BUT NOT MORE THAN 60.000 BAHTS) ลดหย่อน ลดหย่อน ส่วนตัว (SINGLE) 30,000.00 ทู้สมรส (WIFE OR HUSBAND) - - นูส กำลังศึกษา 2 คน - หัก เงินประทันสังคม (SOCIAL SECURITY) 2,700.00 - หัก เงินประทันส์ กานวดงากเงินได้สูทธิ 1 - 50,000 เม่าที่ที่กำนวณจากเงินได้สูทธิ 1 - 102,700.00 เหลือเงินได้สูทธิ 1 - 50,000 102,700.00 (3) เหลือเงินได้สูทธิ 1 - 50,000 102,700.00 (4) เงินกาษีที่ดำนวณจากเงินได้สูทธิ 1 - 50,000 102,700.00 1 50,000 100,000 5% 2,500.00 100,001 - 4,000,000 30% 1,000,001 - 4,000,00		ภาษีนายจ้างออก	
เงินได้คงเหลือเพื่อคำนวณภาษี 324,000.00 (2) รายการหักคำไร้จ่ายและหักลดหย่อน (DEDUCTION) 60,000.00 คำไร้จ่ายในการเหมา 40% (แต่ไม่เกิม 60,000 บาท) 60,000.00 (INDIVIDUAL ALLOWANCE DEDUCTION 40% BUT NOT MORE THAN 60.000 BAHTS) 30,000.00 ดดหย่อน ส่วนตัว (SINGLE) 30,000.00 บูตร กำลังศึกษา 2 คน ไม่ได้ศึกษา 1 คน หัก เงินประกันดังคม (SOCIAL SECURITY) 2,700.00 หัก ดำประกัน (INSURANCE) 10,000.00 พัก กองทุนด์กรองเสียงชีพ (PROVIDENT FOUND) 102,700.00 เหลือเงินได้สูทธิ (AMOUNT FOR TAXATION) 221,300.00 (4) เงินกาษีที่ดำนวณจากเงินได้สูทธิ เสีย 1 50,000 10% 1,000,001 1,000,000 2,500.00 1,000,001 1,000,000 2,500.00 1,000,001 4,000,000 30% 4,000,001 99,999,999,999 37% รวมเงินกาษีที่ดำนวณจากเงินได้สูทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินกาษีที่ดำนวณจากเงินได้สูทธิ (TOTAL TAX) 19,275.03		เงินได้ทั้งสิ้น (TOTAL GROSS)	
(2) รายการนักคำใช้จำยและหักลดหย่อน (DEDUCTION) 60,000.00 คำใช้จ่ายในการเหมา 40% (แต่ไม่เกิน 60,000 บาท) 60,000.00 (INDIVIDUAL ALLOWANCE DEDUCTION 46% BUT NOT MORE THAN 60.000 BAHTS) 30,000.00 ลดหย่อน ส่วนตัว (SINGLE) 30,000.00 คู่สมรส (WIFE OR HUSBAND) 1.92 ก็ลังศึกษา 2.94 น้ำได้ศึกษา 1.94 - - นัก เงินประกันสังคม (SOCIAL SECURITY) 2,700.00 10,000.00 นัก เงินประกัน (INSURANCE) 10,000.00 10,000.00 นัก เงินประกัน (INSURANCE) 102,700.00 102,700.00 นัก เงินประกัน (INSURANCE) 102,700.00 102,700.00 นัก เงินบริจาด (DONATION) 102,700.00 221,300.00 เกิ เงินกาษีที่ดำนวณจากเงินได้สูทธิ เสีย 1.000,000 5% 2,500.00 (3) เหลือเงินได้สูทธิ (AMOUNT FOR TAXATION) 1.000,000 5% 2,500.00 100,000 5% 2,500.00 (4) เงินกาษีที่ดำนวณจากเงินได้สูทธิ (TOTAL TAX) 1,000,000 20% 1,000,000 50,000 10% 12,130.00 500,000 1 1,000,000 30% 4,000,000<		หัก กองทุนเลี้ยงชีพ (ส่วนที่เกิน 10,000 แต่ไม่เกิน 290,000)	
 ค่าไร้จ่ายในการเหมา 40% (แต้ไม่เกิน 60,000 บาท) (INDIVIDUAL ALLOWANCE DEDUCTION 40% BUT NOT MORE THAN 60.000 BAHTS) ลดหย่อน ส่วนตัว (SINGLE) มดร กำลังศึกษา 2 คน ไม่ได้ศึกษา 1 คน นัก เงินประกันลังคม (SOCIAL SECURITY) นัก เงินประกันลังคม (SOCIAL SECURITY) นัก เงินประกันลังคม (SOCIAL SECURITY) นัก เงินประกันลังคม (PROVIDENT FOUND) ลดหย่อนทั้งลิน (TOTAL DEDUCTION) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินกาษีที่คำนวณจากเงินได้สุทธิ นักยุ่นสุทธิ นักยุ่นสุทธิ นักยุ่นสุทธิ มีการมเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) รวมเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 102,703.00 		เงินได้คงเหลือเพื่อคำนวณภาษี	324,000.00
(INDIVIDUAL ALLOWANCE DEDUCTION 40% BUT NOT MORE THAN 60.000 BAHTS) 30,000.00 ตลหย่อน ส่วนตัว (SINGLE) 30,000.00 ตู่สมรส (WIFE OR HUSBAND) บุตร กำลังศึกษา 2 คน - ไม่ได้ศึกษา 1 คน - - หัก เงินประกันสังคม (SOCIAL SECURITY) 2,700.00 หัก เงินประกันสังคม (SOCIAL SECURITY) 2,700.00 หัก เงินประกันสังคม (SOCIAL SECURITY) 10,000.00 หัก เงินประกันสังคม (INSURANCE) 100,000 หัก เงินประกัน (INSURANCE) 102,700.00 เหลือเงินได้จุกซิ (AMOUNT FOR TAXATION) 221,300.00 (3) เหลือเงินได้สุกซิ เสีย 1 50,000 10% 100,001 500,000 10% 100,001 500,000 10% 1,000,001 99,999,999,999 37% รวมเงินกาษีที่คำนวณจากเงินได้สุกซิ (TOTAL TAX) 14,630.00 (5) รวมเงินกาษีที่คำนวณจากเงินได้สุกซิ (TOTAL TAX) 14,630.00	(2)	รายการหักค่าใช้จ่ายและหักลดหย่อน (DEDUCTION)	
สดหย่อน ส่วนตัว (SINGLE) 30,000.00 คู่สมรส (WIFE OR HUSBAND) บุตร กิกลังศึกษา 2 คน นทร กิกลังศึกษา 2 คน - นที่ เงินประกันสังคม (SOCIAL SECURITY) 2,700.00 หัก เงินประกันสังคม (SOCIAL SECURITY) 2,700.00 หัก เงินประกันสังคม (SOCIAL SECURITY) 2,700.00 หัก เงินประกันสังคม (SOCIAL SECURITY) 10,000.00 หัก เงินประกันสังคม (SOCIAL DEDUCTION) 102,700.00 (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) 102,700.00 (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) เสีย 1 50,001 100,000 50,001 1,000,000 5% 2,500.00 100,001 5% 1,000,001 4,000,000 30% 4,000,001 99,999,999,999 37% รวมเงินกายีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินกายีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00		ค่าใช้จ่ายในการเหมา 40% (แต่ไม่เกิน 60,000 บาท)	60,000.00
คู่สมรส (WIFE OR HUSBAND) บุตร กิกลังศึกษา 2 คน ไม่ได้ศึกษา 1 คน หัก เงินประกันสังคม (SOCIAL SECURITY) หัก เงินประกัน (INSURANCE) 102,700.00 หัก เงินประกัน (INSURANCE) 102,700.00 102,700.00 23 เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินกาษีที่ก่านวณจากเงินได้สุทธิ 1 500,001 100,000 5% 2,500,00 100,001 500,000 100,001 500,000 1,000,000 20% 1,000,001 4,000,000 30% 4,000,001 รวมเงินกาษีที่ดำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินกาษีที่ดำนวณจากเงินได้สุทธิ (MTHHOLD TAX)		(INDIVIDUAL ALLOWANCE DEDUCTION 40% BUT NOT MORE THAN 60.000 BAHTS)	
 บุตร กำลังศึกษา 2 คน ไม่ได้ศึกษา 1 คน พัก เงินประกันสังคม (SOCIAL SECURITY) พัก เงินประกัน (INSURANCE) พัก ก่าประกัน (INSURANCE) พัก กองทุนสำรองเสี้ยงชีพ (PROVIDENT FOUND) ลดหย่อนทั้งสิน (TOTAL DEDUCTION) เหลือเงินได้สุทธิ เหลือเงินได้สุทธิ เชีย เป็นได้สุทธิ เสีย เป็นประกัน (INSURANCE) เป็นประกัน (INSURANCE) เหลือเงินได้สุทธิ เหลือเงินได้สุทธิ เชีย เป็นกาษีที่คำนวณจากเงินได้สุทธิ เสีย ร่ามเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) ร่ามเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) เป็นกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) เป็นกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) เป็นกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) เป็นกาษีเงินได้ที่ทัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 		ลดหย่อน ส่วนตัว (SINGLE)	30,000.00
 ไม่ได้ศึกษา 1 คน พัก เงินประกันสังคม (SOCIAL SECURITY) พัก เงินประกันสังคม (SOCIAL SECURITY) พัก ค่าประกัน (INSURANCE) พัก เงินบริจาค (DONATION) พัก กองทุนสำรองเสี่ยงขีพ (PROVIDENT FOUND) ลดหย่อนทั้งสิน (TOTAL DEDUCTION) (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ 1 - 500,000 100,001 - 500,000 100,001 - 500,000 100,000 500,001 - 1,000,000 20% 1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999,999 37% รวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630,00 (5) รวมเงินภาษีที่ด้าน ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03 		คู่สมรส (WIFE OR HUSBAND)	
หัก เงินประกันสังคม (SOCIAL SECURITY) 2,700.00 หัก เงินประกัน (INSURANCE) 10,000.00 หัก เงินบริจาค (DONATION) ทัก กองทุนสำรองเสี้ยงชีพ (PROVIDENT FOUND) ลดหย่อนทั้งสิน (TOTAL DEDUCTION) 102,700.00 (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ 1 50,000 100,000 5% 2,500.00 100,001 500,000 1,000,001 500,000 1,000,001 4,000,000 20% 1,000,000 1,000,001 4,000,000 30% 1,000,000 1,000,001 99,999,999,999 37% 14,630.00 (5) รวมเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 19,275.03 19,275.03		บุตร กำลังศึกษา 2 คน	-
 พัก ค่าประกัน (INSURANCE) พัก เงินบริจาค (DONATION) พัก กองทุนสำรองเสี้ยงรีพ (PROVIDENT FOUND) ลดหย่อนทั้งสิน (TOTAL DEDUCTION) (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ 1 - 50,000 100,001 - 500,000 100,001 - 500,000 100,001 - 500,000 1,000,001 - 1,000,000 225,0000 1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999,999 37% 53มเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630,00 (5) รวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 19,275.03 		ไม่ได้ศึกษา 1 คน	-
 พัก เงินบริจาค (DONATION) พัก กองทุนสำรองเลี้ยงขีพ (PROVIDENT FOUND) ลดหย่อนทั้งสิน (TOTAL DEDUCTION) (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ 1 - 50,000 100,001 500,001 100,000 5% 2,500,00 100,001 500,001 1,000,000 20% 1,000,001 4,000,000 30% 4,000,001 99,999,999,999 37% รวมเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630,00 (5) รวมเงินกาษีที่ดำนวณจากเงินได้สุทธิ (TOTAL TAX) 19,275.03 		หัก เงินประกันสังคม (SOC <mark>IAL SECUR</mark> ITY)	2,700.00
หัก กองทุนสำรองเสี้ยงชีพ (PROVIDENT FOUND) ลดหย่อนทั้งสิน (TOTAL DEDUCTION) (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ 1 - 50,000 0% 50,001 100,000 5% 2,500,00 100,001 - 500,000 10% 12,130,00 500,001 - 1,000,000 20% 1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999,999 37% รวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630,00 (5) รวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275,03		หัก ค่าประกัน (INSUR <mark>ANCE)</mark>	10,000.00
ลดหย่อนทั้งสิน (TOTAL DEDUCTION) 102,700.00 (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) 221,300.00 (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ 1 - 50,000 0% 1 - 50,000 0% - 50,001 100,000 5% 2,500.00 100,001 - 500,000 10% 12,130.00 500,001 - 1,000,000 20% 1,000,000 20% 1,000,001 - 4,000,000 30% 4,000,001 99,999,999,999 37% รวมเงินกาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 19,275.03 (5) รวมเงินกาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03		หัก เงินบริจาค (DONATION)	
 (3) เหลือเงินได้สุทธิ (AMOUNT FOR TAXATION) (4) เงินภาษีที่ดำนวณจากเงินได้สุทธิ 1 - 50,000 100,001 500,000 100,001 4,000,000 30% 4,000,001 99,999,999,999 37% 53มเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินภาษีเจินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 		หัก กองทุนสำรองเลี้ย <mark>งชีพ</mark> (PROVIDENT FOUND)	
 (4) เงินภาษีที่คำนวณจากเงินได้สุทธิ 1 - 50,000 50,001 100,000 5% 2,500.00 100,001 500,001 1,000,000 20% 1,000,001 4,000,000 30% 4,000,001 99,999,999,999 37% 53มเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 		ลดหย่อนทั้งสิน (TOTAL <mark>DEDUCTION</mark>)	102,700.00
1 - 50,000 0% 50,001 100,000 5% 2,500,00 100,001 - 500,000 10% 12,130.00 500,001 - 1,000,000 20% 1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999,999 37% ภวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) ภวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03	(3)	เหลือเงินได้สุทธิ (AMO <mark>UNT FOR TAXATION)</mark>	221,300.00
1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999 37% ภวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) ภวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03	(4)	เงินภาษีที่คำนวณจากเงินได้สุทธิ เสีย	
1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999 37% ภวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) ภวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03		1 - 50,000 0%	-
1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999 37% ภวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) ภวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03		50,001 100,000 5%	2,500.00
1,000,001 - 4,000,000 30% 4,000,001 - 99,999,999 37% ภวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) ภวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03		100,001 - 500,000 10%	12,130.00
4,000,001 - 99,999,999 37% รวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03		500,001 - 6 1,000,000 20%	
รวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX) 14,630.00 (5) รวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX) 19,275.03		1,000,001 - 4,000,000 30%	
(5) รวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX)		4,000,001 - 99,999,999,999 37%	
		ภวมเงินภาษีที่คำนวณจากเงินได้สุทธิ (TOTAL TAX)	14,630.00
(6) ภาษีเงินได้ที่ต้องซำระเพิ่มเติม / ซำระไว้เกิน (ADDITION OR RET.) - 4,645.03	(5)	ภวมเงินภาษีเงินได้ที่หัก ณ ที่จ่ายและนำส่งแล้ว (WITHHOLD TAX)	19,275.03
	(6)	ภาษีเงินได้ที่ต้องชำระเพิ่มเติม / ชำระไว้เกิน (ADDITION OR RET.)	4,645.03

Figure D.18. Personal Income Tax Form (91).

หนังสือรับรองการหักภาษี ณ ที่จ่าย ตามมาตรา 50 หวิ แห่งประมวลรัษฎากร	ประมารรัษฏากร			
	े प् र र	วัน เดือน ปี หรือ		จำนวนเงิน ภาษี
1. ชื่อและที่อยู่ของผู้มีหน้าที่หักภาษี ณ ที่จ่าย	สะรงเดาหา	ปี ภาษีที่ค่าย	จำนวนเงินที่จ่าย	ที่พักไว้
(บุคคล คณะบุคคล นิติบุคคล ส่วนราชการ องค์การ	1. เงินเดือน ค่าจ้าง เบียเลี้ยง โบนัล ฯลฯ ตามมาตรา 40(1)	30 September 1999	324,000.00	19,275.03
(รัฐวิสาหกิจ ฯลฯ)	2. ศาธรรมเนียม ค่านายหน้า ฯลฯ ตามมาตรา 40(2)			
KK ENGINEERING SYSTEM CO., LTD.	3. ค่าแห่งลิขสิทธิ์ ฯลฯ ตามมาตรา 40(3)			
44/22-23 New Road 31, Samphantawong	4. (1) คำตอกเบี้ย ฯลฯ ตามมาตรา 40(4)(ก)			
BKK 10100	(2) เงินปันผล เงินส่วนแปงออกกำไร ฯลฯ ตามมาตรา 40(4)(ข)			
เลขประจำตัวผู้เสียภาษีอากร 11111111	 การจ่ายเงินได้ที่ต้องหักภาษี ณ ที่จ่ายตามดำสั่งกรมสรรพากร 			
2. ชื่อและที่อยู่ของผู้ถูกหักภาษี ณ ที่ค่าย	ที่ออกตามมาตรา 3 เตรล เช่น ค่าช้อพื้ชผลทางการเกษตร			
Mr. Teratwat Ratanasiriwongwut	(ยางพารา มันสำปะหลัง ปอ ช้าว ฯลฯ) รางวัลในการประกวด			
26/1 Ladprao Rd., Ladprao, Bkk.	การแข่งขั้น การซิงโซค ค่าแสดงภาพยนตร์ ร้องเพลง ดนตรี	N		
	ค่าจ้างทำของ ค่าใฉนะถนา ค่าเช่า ฯลฯ			
เลขประจำตัวผู้เสียภาษีอากร 4125125112	6. बैंध इट्य			
19		R		
201	The second	C	324,000.00	19,275.03
	ขอรับรองว่า ชั่อความและตัวเลขดังกล่าวข้างตั้นถูกต้องตรงกับความจริงทุกประการ	<u>าวป้างต้นถูกต้องตรงกับค</u>	เวามจริงทุกประการ	
inc inc	ลงชื่อ		เมินน้ำที่หักกาษี ณ i	ที่ต่าย
2j				
*	Figure D.19. Withholding Tax.			
	(NHTHHV)			

Monthly Salary

at the end of 30 September 1999

Employee_ID	Name	Surname	Salary	Overtime	Total
Department	Administration				
11013	Mrs. Apinya	Kongkang	6,000.00		6,000.00
11016	Miss Suluckana	Verasatein	6,000.00		6,000.00
12027	Mr. Wuthichai	Yingyong	13,000.00		13,000.00
13035	Miss Pasuk	Taechapongpipat	12,000.00		12,000.00
Department	Business Develop	oment			
31005	Mr. Varakorn	Suprawan	28,000.00		28,000.00
Department	Implementation	INER2	TV		
21012	Mr. Somchai	Nadee	6,500.00	146.25	6,646.25
21015	Mr. Krisana	Manamuti	25,000.00		25,000.00
21019	Mr. Chumpol	Srisuk	7,500.00	112.50	7,612.50
22028	Mr. Terawat	Ratanasiriw <mark>on</mark> gwut	36,000.00	T	36,000.00
92201	Mr. So <mark>msa</mark> k	Kornchana	4,50 0.00	67.50	4,567.50
Department	Logistic				
41015	Mr. Verasak	Verasatein	6,500.00	97.50	6,597.50
J.	BRUTHER			2	151,423.75
	LABOR		NOIT	0	
	*		*		
	2/2000	SINCE1969	303		
15 October 1999		กยารังเวลิติ			Page 1 of 1

Figure D.20. Monthly Summary.

Yearly Salary

at the end of 30 September 1999

Employee_ID	Name	Surname	Salary	Overtime	Total
Department	Administration				
11013	Mrs. Apinya	Kongkang	54,000.00		54,000.00
11016	Miss Suluckana	Verasatein	54,000.00		54,000.00
12027	Mr. Wuthichai	Yingyong	117,000.00		117,000.00
13035	Miss Pasuk	Taechapongpipat	108,000.00		108,000.00
Department	Business Develop	oment			
31005	Mr. Varakorn	Suprawan	252,000.00		252,000.00
Department	Implementation	LUSIL	•		
21012	Mr. Somchai	Nadee	58,500.00	146.25	58,646.25
21015	Mr. Krisana	Manamuti	225,000.00		225,000.00
21019	Mr. Chumpol	Srisuk	67,500.00	112.50	67,612.50
22028	Mr. Terawat	Ratanasiriwongwut	324,000.00		324,000.00
92201	Mr. Somsak	Kornchana	40,500.00	67.50	40,567.50
Department	Logistic			-	
41015	Mr. Verasak	Verasatein	58,500.00	97.50	58,597.50
S.					1,359,423.75
-	LABOR				
*			*		
	&1292 SI	NCE1969	69		
15 October 1999		าลยอลละ		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Page 1 of 1

Figure D.21. Yearly Summary.

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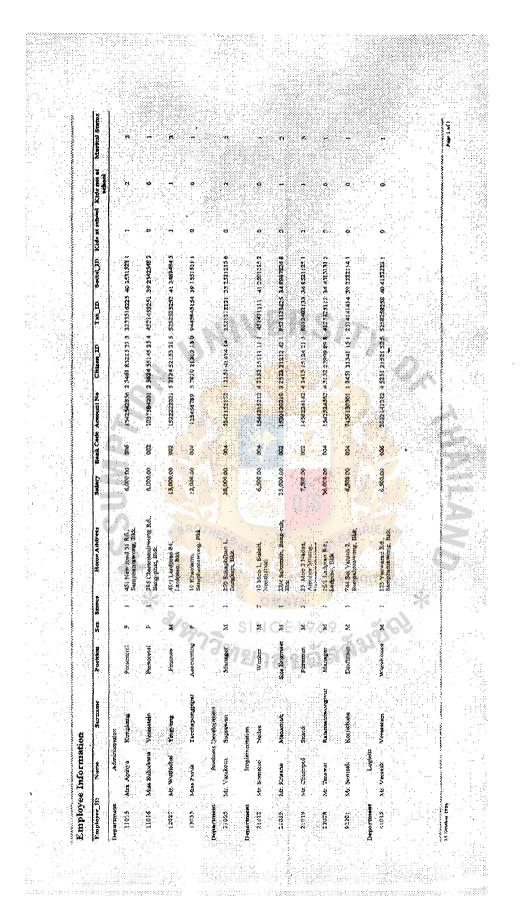


Figure D.22. Employee Information.

Employee_	_ID Nan	ne	Surname	Home Address	Date of Employed	Total Day of
002	Implem	entation				
92201	Mr.	Somsak	Kornchana	744 Soi Vanich 2, Sampahntawong, Bkk.	1/8/99	7
			NIVE	RSITY		
	9	4				
	1P7					
				+ MEAL		
	SUN			DS		
	NUSSA	BRO		SI GABRIEL	ANA	
	NUS24	BRO		SI GABRIEL	ANA	

Figure D.23. Pretest Working.

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This section provides users with the knowledge of system's features and how to properly use them.

Program Installation

To get the program up and running, install Microsoft Access Version 97 first in the target disk. It will create a Microsoft Access directory. The program may be installed for use within a hard disk. Hard disk is preferable because it offers faster execution, more ease of use, and more disk space.

Starting Program

To begin working with Payroll System, the user must double click on Microsoft Access. Then you will access to Payroll System program. You must enter password first because this program allows only authorized person to access the information (See Appendix C, Figure C.1)

When password is verified, the payroll system main menu will show on screen. In this main menu you can entry data followed by the item shown on screen (See Appendix C, Figure C.2)

The list of main menu includes:

- Enter New date(See Appendix C, Figure C.3)
 Every time you access this program, you should update your system first.
- (2) Company Information (see Appendix C, Figure C.4)

On screen of Company Information, the user should enter:

- (a) Company Name
- (b) Address
- (c) Telephone Number
- (d) Tax Identification of the Company
- (e) Social Security Identification of the Company

After the user enters the data already, press Exit to go to the main menu.

(3) Update

This menu is used to update all information of the payroll system as follows:

(a) Employee Information (See Appendix C, Figure C.6)

User will enter employee data one by one. We use Employee Identification as a primary key to search data. The user should enter all information requirements. This program is designed to ease uses such as user can click at Department Identification to find department code if he/she forgets it.

(b) Department Information (See Appendix C, Figure C.7)

This is used to add or edit department information. It includes department identification and department name that needs to be created. After you finished, press Exit and go to update menu.

(c) Division Information (See Appendix C, Figure C.8)

This is used to add or edit division information. It includes division identification and division name that needs to be created. After you finish, press Exit and go to update menu.

(d) Bank Information (See Appendix C, Figure C.9)

This is used to add or edit Bank information. It includes Bank Code and Bank name that needs to be created. After you finish, press Exit and go to update menu.

(e) Tax Table Information (See Appendix C, Figure C.10)

This tax rate is used to update from federal government law. If it changes tax rate, the user can use it to screen and to update tax table information. It is used as a base of computing tax rate salary.

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(f) Adjust Salary Information (See Appendix C, Figure C.11)

User can update adjusted salary on this screen, then other screens that related to this information will change automatically. After you have adjusted already press Exit.

(4) Edit Attendance (See appendix C, Figure C-12)

This menu is used to update employee attendance in each month. The data include:

- (a) Date of Adjustment
- (b) Employee Information
- (c) Overtime rate; the user should enter the overtime work hour in each overtime rate.

RSITV

- (d) Per diem
- (e) Late; the user should enter the minute late of employee.
- (f) Sick Leave
- (g) Business Leave
- (h) Absent
- (i) Other Deduction

(5) Report

On menu report, it is used to print out the outputs of information as follows:

- (a) Employee Report
 - (1) Current Employee (See Appendix D, Figure D.2)
 - (i) It is the report of current employees who are working at KKES.
 - (2) Resign Employee (See Appendix D, Figure D.3).
 - (i) This lists the employees who are resigned from the company.
 - (3) Adjust salary (See Appendix D, Figure D.4)

- (i) It is the report that lists the employee who is adjusting salary.
 Output includes Employee Identification, Name and Surname,
 Division, Date of Adjust Salary, Adjust Salary and Prior Salary.
 The information is sorted by department.
- (4) Certificate Salary (See Appendix D, Figure D.5)
 - (i) This report is printed out when the employee wishes to use it.
- (b) Attendance Report (See Appendix D, Figure D.6)

This report shows all the records of employee attendant. The user should enter the start date requirement first and then enter the end date of requirement. The report summarizes the attendant record between the period requirement.

(c) Department Report (See Appendix D, Figure D.7)

This report prints out the total number of departments in the company. The information includes department name and department code that the user set.

(d) Bank Account Report(See Appendix D Figure D.8)

This report prints out the total number of Bank Names in the company. The information includes Bank Code and Bank Name

- (e) Payment Slip (See Appendix D, Figure D.9)
 - (1) Salary and Wages Slip (See Appendix D, Figure D.9)
 - (i) This is the form of payment slip. Before printing out this form, the user should enter the period of data requirement, then press OK. If the user would like to cancel it, press Cancel bottom.
 - (2) Cash Deposit Payment (See Appendix D, Figure D.10)

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- (i) This report prints out the total amount of net pay to employee and submits it to the bank account to transfer the salary payment to each employee.
- (f) Social Security Form
 - Submit the form of Social Security (See Appendix D, Figure D.11 and Figure D.12)
 - (i) This form is submitted to Social Security Act each month. It includes the employee in Social Security Act and the total amount of Social Deduction. That compute from 2% of the salary rate between 1,650-15,000 baths.
 - (2) List of Employee in Social Security Act (See Appendix D, Figure
 D.13)

(i) This is the list of employee in Social Security Act including the rate of salary that is used to compute the Social Security Form.

- (g) Federal Income Form
 - Personal Income Tax (1) (See Appendix D, Figure D.14 and Figure D.15)
 - (2) Personal I income Tax (1n) (See Appendix D, Figure D.16 and Figure D-17)
 - (3) Personal Income Tax Form (91) (See Appendix D, Figure D.18)
 - (4) Withholding Tax (See Appendix D, Figure D.19)
- (h) Summary Salary
 - (1) Monthly Summary (See Appendix D, Figure D.20)
 - (i) This is the summary of salary paid each month.
 - (2) Yearly Summary (See Appendix D, Figure D-21)

- (i) This is the total of salary paid at the beginning period up to the end period.
- (i) Employee Information (See Appendix D, Figure D.22)
 - (a) It is the report that shows all the information of employees.
- (j) Pretest Working (See Appendix D, Figure D.23).
 - (a) It is the report that shows the total number of employees who are on probation in company.
 - (b) It shows the starting date of work and the total date of work at present.

After the users finished their report requirements, they can press the button of return to menu. And then if they would like to close the Payroll System, press button Exit at Main Menu to close the program. And the user can back up the data to prevent the loss of data in the Payroll System.



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