

**PUBLIC WATER CORPORATION (PWC)
MINISTRY OF IRRIGATION AND WATER RESOURCES (MIWR)**

**PROJECT FOR HUMAN RESOURCES
DEVELOPMENT FOR WATER SUPPLY
IN
THE REPUBLIC OF SUDAN**

**MANAGEMENT MANUAL
FOR ADMINISTRATION STAFF USE**

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JAPAN INTERNATIONAL COOPERATION AGENCY

**EARTH SYSTEM SCIENCE CO., LTD.
JAPAN TECHNO CO., LTD**

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Chapter VII Equipment Management Manual

1. Equipment List

- 1.1 Inventory of Equipment in PWCT
- 1.2 Equipment Entry Sheet
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- 2.1 Driving Record for the Fork Lift
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Chapter VIII PWCT Laboratory Equipment, Materials and Reagents Management

- 1. Equipment, Materials and Reagents List
- 2. Stored Location List

CHAPTER I

PWCT REGULATIONS

1-1. INTRODUCTION

This handbook is prepared for all staff in the Public Water Corporation Training Center (hereinafter the PWCT). To date, the PWCT has not established working regulations and other management manuals although it has been working since June 2008. Therefore, the PWCT developed these manuals so that the staff could keep and follow these regulations. The manual should be reviewed as the situation demands.

1-2. PURPOSE OF THE PWCT

Regarding the water supply in Sudan, its responsibility had been taken over from the Public Water Corporation (hereinafter PWC) to the State Water Corporations (hereinafter SWCs) since the 1995 decentralization ordinance. However, economic and social gaps among the States were so serious that some of the SWCs could not provide enough opportunity to develop human resources through training programs. To cope with this problem, the PWC encouraged the PWCT activity with JICA support. The purpose of the PWCT is to develop human resources for water supply in the SWCs.

1-3. RESPONSIBILITY

The PWCT is an organization to implement training for SWC staff to develop human resources.

1-3-1. Management System

(1) General Administration

The PWCT will manage every issue in this center.

(2) Lodge Management

The PWCT will manage accommodation facilities on the fourth floor.

(3) Kilo Ten Training Center (KTC)

The PWCT will manage the KTC which aims at practical training.

(4) Equipment Management

The PWCT will manage training materials and equipment.

(5) Library Management

The PWCT will manage all document and books which were provided by Japan.

(6) Document Management

The PWCT will manage all official documents such as Minutes of Meetings.

(7) Financial Management

The PWCT will manage budget application and accounting.

(8) Schedule management

The PWCT will manage the annual schedule for training programs.

(9) Coordination among SWCs

The PWCT will manage application procedures for trainees and provide information.

(10) Holding seminars and meeting

The PWCT will organize seminars and meetings, and provide agendas and memorandam.

(11) Development and review of regulations and manuals

The PWCT will review manuals.

(12) Public Relations

The PWCT will promote public relation activities such as providing brochures, web site and boards

1-3-2 Training Program Management

(1) Training Plan

Training coordinators must make annual plans and overall plans for all training courses.

(2) Training course guidance and application

The PWCT must inform training programs for each course to the SWCs and provide application forms of training courses. Trainees should prepare resumes according to the designated form.

(3) Selection of Lecturers and training on educational technology

Lecturers must be nominated based on the training course plans. Their resumes must be prepared. A new lecturer must attend a seminar on education technology.

(4) Textbook and materials development.

Textbooks and materials must be prepared in collaboration with training coordinators and lecturers. Copyrights shall be observed.

(5) Training course implementation

The basic training period is one week. Orientation program must be implemented on the first day and certification shall be given on the final day.

(6) Examination

Training coordinators and Lecturers must work together to provide examination sheets and sample answers. Trainees must take the examinations to check their understanding. Training coordinators must score and keep records based on the designated form.

(7) Evaluation

Trainees must fill in sheets for training quality evaluation, which include courses, lecturers and foods & accommodation services

(8) Reporting

The PWCT must prepare training reports and send them to the SWCs and other related organizations in order to inform them of training results and PWCT activities.

(9) Impact assessment

The PWCT is responsible to periodically carry out impact assessments in the SWCs.

(10) Training program outside the country

Some staff in the PWCT have received training in Japan in 2009 and 2010. Some SWC staff participated in the JICA training program in Ethiopia as well. Thus, the PWCT will promote training opportunities outside the country.

(11) Needs assessment

The PWCT must do a needs assessment survey and establish training courses according to needs.

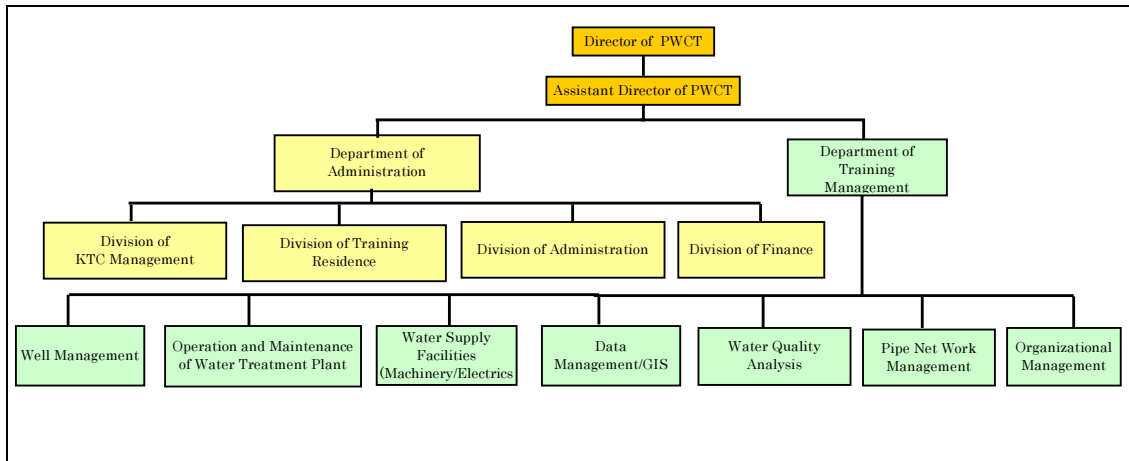
1-4. LOGO MARK

The Logo marks of the PWCT are shown below. The logo marks are utilized for name cards, brochures and the web site as well.



1-5. ORGANIZATION CHART

The organization chart (as of March 2011) is shown below. The Department of Training management will be responsible for training implementation from March 2011.



Chief Managers, Chief Training Coordinators and Sub Chief Coordinators must be designated as well as the Director of the PWCT and Assistant Director.

1-5-1. Department of Administration

The Administrative Department, which organizes financial division, administrative division, and lodge management division, must manage all administrative affairs and the budget.

1-5-2. Training Management Department

The Department of Training management is responsible for planning, implementation, and the evaluation of every training course. The PWCT has carried out seven training courses with the JICA Experts support since November 2008. However, since those seven training courses will terminate in March 2011, the PWCT will start a modified training program in which target trainees are selected based on hierarchy such as newcomer, middle class and top managers. Training courses for software as well as engineering are planned to be implemented for newcomers and middle class staff.

Meanwhile, the PWCT has implemented training programs for five States, that is, North Darfur, West Darfur, South Darfur, South Darfur and Blue Nile. The PWCT will manage them flexibly.

1-6. JOB DESCRIPTION

(1) Director of the PWCT

The Director of the PWCT is responsible for managing the PWCT.

(2) Assistant Director of the PWCT

The Assistant Director of the PWCT is responsible to assist the Director and act as deputy on behalf of the Director

(3) Director of Training Management Department

The director of the Training Management Department is responsible for training management, and supervision of every task. The director is also responsible to hold meetings to cope with problematic issues in close cooperation with the Director of the PWCT. Moreover, the director of the Training Management Department must coordinate with SWCs.

(4) Director of Administration Department

The Director of the Administration Department is responsible to manage all administrative issues such as personnel, logistics, finance, equipment and facilities. The details are shown in the manual for PWCT Management, Budget manual, accounting manual and lodge management manual.

(5) Training Course Coordinators

The course coordinators are responsible for training implementation.

(6) Assistant Training Course Coordinator

The assistant training course coordinators are responsible to support each training course coordinator and the JICA Experts. They must periodically report the task to the training coordinators as well.

(7) Manager of Kilo Ten Training Center (KTC)

The KTC Manager is responsible for the KTC facility and the equipment for training courses, by using the Equipment and Facility Management Manual.

(8) Manager of the Residence

The Manager of Residence is responsible for lodge arrangement, reception and cleaning. Again, the Manager must deal with trainee's complaints. The manager shall refer to the lodge management manual.

(9) Secretary

The secretary belongs directly to the Director of the PWCT to cope with many issues.

1-7. WORKING HOURS

1) Working hours in normal period

8 : 30 Starting

11 : 00 Breakfast

13 : 00 Praying

15 : 30 Finishing

2) Working hours during training period

9 : 00 Training start

11 : 00 Breakfast

13 : 30 Praying

16 : 00 Finishing training

1-8. TRAVEL ALLOWANCE

Travel allowances must be paid based on the following steps.

- (1) Submission of application form and schedule table
- (2) Application of approximate estimation
- (3) Balance and refund after the trip
- (4) Detailed expenses must be described in the balance sheet.

Position	Daily	Accommodation	Total
Director of the PWCT	60	100	160
Assistant Director	50	100	150
Department Manager	45	80	125
Division Chief	40	70	110
Training course Coordinators	40	70	110
Assistant Coordinators	35	65	100

1-9. ACCOUNTING

The PWCT must follow the Sudanese government standards. The Accounting manual for the PWCT must be referred to.

1-10. DECISION MAKING PROCESS

The table below shows the decision making flow. Each document must be written in appropriate form and required to be signed by the applicants' superior. The final document must be organized and preserved in order of the task.

Director General of PWC	Director	Assistant Director	Director of Administration	Division Manager
			Director of Training Management	Course Coordinator
Signature	←	←	←	

1-11. EQUIPMENT MANAGEMENT

All properties in the PWCT must be managed according to the Equipment Management Manual.

1-12. EVALUATION

The performance evaluation in regard to PWCT activities must be done annually by a third organization.

CHAPTER II

MANUAL FOR BUDGETING

2-1. PURPOSE

The primary purpose of the Public Water Corporation Training Center (PWCT) is to train engineers and technicians in the State Water Corporations (SWCs). Training programs are implemented at the Kilo Ten Training Center (KTC) as well as at the PWC main building. Second, needs assessment for training courses should be carried out periodically. Third, the PWCT should secure a budget for total activities. This manual aims at the appropriate budget management.

2-2. COST CATEGORY

The Sudanese fiscal year starts in January and ends in December. Budget applications should be submitted by September every year. Detailed cost items must be described in the application form. Expected budget categories are shown below.

(1) Personnel Expense

Allowance for trainees, lecturers, the PWCT staff, and labor.

(2) Transportation

Transportation expense for trainees, lecturers and survey staff

(3) Accommodation

Food, equipment, and amenities

(4) Stationary

Stationary goods, materials, supplies and other maintenance costs

(5) Communication Cost

Telephone, Fax, Internet

(6) Utility Cost

Electricity, water, and gas charges

(7) Cost for Training Implementation

Textbooks, materials printing cost and venue cost

(8) Food

Foods and drinks for conference and seminars

(9) Survey Cost

Fuel, accommodation, allowance, car maintenance

(10) Contingency

Emergency use

(11) Budget Application

A sample application form is shown below. The table shows cost estimation on a task basis (2008-2011). Budget application requires attachment of the annual plan and training schedule.

Budget Application

No	Item	Contents	Unit price	Quantity	2008	2009	2010	2011
1	Personnel expenses	Trainee daily allowance	25	300 prs x 14 days	14,000	56,000	87,500	105,000
		Lecturer allowance	100	35 prs x 12 days	7,000	42,000	42,000	42,000
		Staff allowance	500	27 prs x 12 months	45,000	108,000	108,000	162,000
		Workshop labors	150	12 prs x 2 months	3,000	3,600	3,600	3,600
			Sub total			69,000	209,600	241,100
2	Transportation expenses	Trainee	25	300 prs x 2 times	4,000	8,000	12,500	15,000
		Lecturer	25	80 prs x 12 days	1,400	15,400	22,400	24,000
		Investigation assistant	150	5 prs x 4 times	6,000	4,000	4,000	3,000
		Exchange Experience	150	10 prs x 14 days	0	0	0	21,000
		Sub total			11,400	27,400	38,900	63,000
3	Welfare expenses	Food expenses of the lodgings	30	300 prs x 14 days	18,900	56,000	87,500	126,000
		Equipment costs of the lodgings	2,000	12 prs	30,000	30,000	13,200	24,000
		Entertainment costs	1,000	5 sets	5,000	5,000	5,000	5,000
				Sub total			53,900	91,000
4	Office work costs	Office supplies costs	2,000	12 months	3,000	6,000	24,000	24,000
		Office equipment costs	12,000	6,000 x 1 + 2 x 2,000 + 1 x 2,000	12,000	12,000	12,000	12,000
		Maintenance cost of the center	6,000	12 months	3,000	3,000	68,088	72,000
				Sub total			18,000	21,000
5	Communication costs	Telephone / FAX costs	500	12 months	3,000	6,000	6,000	6,000
		Internet	500	12 months	3,000	6,000	6,000	6,000
				Sub total			6,000	12,000
6	Expenses for lighting and fuel	Electricity	3,000	12 month	12,000	24,000	36,000	36,000
		Water	200	12 month	1,200	2,400	2,400	2,400
		Gas	75	12 month	300	600	600	900
				Sub total			13,500	27,000
7	Training expense	Document purchase	50	3250 sets	8,000	8,000	162,500	195,000
		Equipment costs	1,000	13 sets	1,000	1,000	13,000	13,000
		Document making costs	100	250 prs	2,000	2,000	25,000	30,000
		Meeting place costs	150	200 prs	2,500	2,500	30,000	45,000
				Sub total			13,500	13,500
8	Meeting costs	Tea	50	12 units x 50 SDG	2,016	3,840	48,000	30,000
		Light meal	100	13 units x 50 SDG	10,080	19,200	240,000	60,000
				Sub total			12,096	23,040
9	Field visits	Fuel	500	12 months	1,800	1,800	3,600	6,000
		Allowance	100	4 prs x 30 days	12,000	12,000	12,000	12,000
		Logging	200	4 prs x 30 days	24,000	24,000	24,000	24,000
		Maintenance	1,000	12 months	5,000	5,000	10,200	12,000
				Sub total			42,800	42,800
10	Contingencies	Emergency payment	1,000	12 months	6,000	12,000	12,000	12,000
		Sub total			6,000	12,000	12,000	12,000
11	Workshop Maintenance	Maintenance	50	12 months x 50SDG	0	0	0	30,000
		Spare parts	1,000	12 months	0	0	0	12,000
		Building Maintenance	20,000	12 months	0	0	0	20,000
				Sub total			0	0
12	Logging Maintenance	Furniture Maintenance	1,500	12 months	0	0	0	18,000
				Sub total			0	0
Ground Total					246,196	479,340	1,121,088	1,208,900

(12) Cost Management

Cost management should be checked every month. The Budget must be managed by proper cost accounting such as previous expenditures should be organized on a category basis, and the remainder should be calculated. A sample Format is shown below.

Accounting Format

Item and Contents				2008				
No	Item	Contents	Unit price	Quantity	Amount	July	Balance	Remarks
1	Personnel expenses	Trainee daily allowance	50	20prs x 14days	14,000			
		Lecturer compensation	500	500 x 14days	7,000			
		Counterparts fee	500	15prsx500x6M	45,000			
		Skilled workshop labors	150	150x10x2M	3,000			
	Sub total					69,000		
2	Transportation expenses	Trainee use	100	100x20x2times	4,000			
		Lecturer use	50	50x28d	1,400			
		Investigation assistant use	200	5x200x6times	6,000			
Sub total					11,400			
3	Welfare expenses	Food expenses of the lodgings	45	45x30x14d	18,900			
		Equipment costs of the lodgings	1000	1000x30	30,000			
		Entertainment costs			5,000			
Sub total					53,900			
4	Office work costs	Office supplies costs	500/m	500x6m	3,000			
		Office work machine costs		6,000x1+2x2,000+1x2,000	12,000			
		Maintenance cost of center	1,000	1,000x3times	3,000			
Sub total					18,000			
5	Communication costs	Telephone / FAX costs	500	500x6m	3,000			
		The Internet age	500	500x6m	3,000			
Sub total					6,000			
6	Expenses for lighting and fuel	Electricity	2,000	2,000x6m	12,000			
		Water	200	200x6	1,200			
		Gas	50	50x6m	300			
Sub total					13,500			
7	Training expense	Document purchase	50	50x8x20	8,000			
		Machine parts purchase costs		lump sum	1,000			
		Document making costs	100	100x20prs	2,000			
		Meeting place costs	50	50x50prs	2,500			
Sub total					13,500			
8	Meeting costs	Tea	2	2x8timesx21prsx6m	2,016			
		Light meal	10	10x8timesx21prsx6m	10,080			
Sub total					12,096			
9	Field visits	Fuel	60	60x30days	1,800			
		Allowance	100	4prs x 30 days	12,000			
		Logging	200	4prs x 30 days	24,000			
		Maintenance	500	10 times	5,000			
Sub total					42,800			
10	Contingencies	Emergency payment	1,000	1,000x6m	6,000			
		Sub total					6,000	
Ground Total					244,696			

(13) Supplementary Budget

The PWCT financial manager can apply a supplementary budget if cost estimation is expected to exceed actual expenses. The reason for this requirement must be explained in detail. A supplementary budget should be used for emergency cases. A saving Cost Policy must be followed.

(14) Carrying Budget Over

It is rare to balance the budget 100 percent within a year. If the actual expense was under the estimation, the remainder could be carried over to the next fiscal year. Balance analysis is necessary.

CHAPTER III

ACCOUNTING MANUAL

3-1. PURPOSE

The PWCT activities are accompanied by various costs. Total expenditures must not exceed the fiscal budget. To efficiently control expenditures, every staff member should have proper knowledge about the accounting process and expense categories that they use. This manual aims at improvement of the accounting process, to standardize methods, and to understand the financial process.

3-2. ACCOUNTING PROCESS

3-2-1. Application and Approval of Approximate Estimation (See Format 1)

A travel Expenditure Application must be submitted at least one week before travel. The superiors' signature is required for approval.

3-2-2. Money Reception

The accountant should deliver cash to the person who submits an application. Recipient should check the amount received.

3-2-3. Receipt

Receipts for the PWCT must be collected from suppliers. The date and expense category should be noted in the receipts. If receipts are not provided by suppliers, the PWCT provides a form and asks them to write the amount, date, item name, and quantity and unit price in it.

3-2-4. Sorting Receipts (See Format 2)

Receipts must be sorted by date and put in a designated format.

3-2-5. Balance Sheet (See Format 3)

The accountant must fill the amounts in the balance sheet and calculate them.

3-2-6. Balance Sheet Submission (See Format 4)

The balance report must be submitted to the superior within one week after purchase.

3-2-7. Accountant Responsibility

The accountant should check the balance sheet report immediately after submission. The

accountant is responsible to ask those who submit receipts about the details if he/she finds questions about the expense.

3-2-8. Refund the Balance

The accountant must balance the expense and refund it if necessary.

3-3. EXPENSE CATEGORY

Expense categories are designated as below.

3-3-1. Personnel Cost

This category is for trainee allowance, lecturer fee, salary compensation, and labor costs in the KTC.

3-3-2. Transportation Cost

Transportation cost for trainees, lecturers and surveyors are included.

3-3-3. Social Welfare

Newspapers, TV, magazines and medicines are included.

3-3-4. Outsource Cost

Food services, room cleaning, and safety guards are included. The PWCT will sign contracts with the outsourced company.

3-3-5. Stationary Goods Cost

Office supplies such as files, pens, magic pens, notebooks, papers, ink, toners and maintenance costs are included.

3-3-6. Communication Cost

Prepaid cards, Fax, international phone and postage are included

3-3-7. Utility Cost

Electricity, water, gas in the PWCT are included.

3-3-8. Training Operation Cost

Data collection, textbook preparation, equipment, materials, and charge for venue

3-3-9. Drink and Food Cost

Drinks and foods for the training facility are included.

3-3-10. Survey Cost

Fuels, car maintenance, allowances are included.

3-3-11. Contingency

Preparation for an emergency and uncategorized expenses are included.

3-4. FORMATS

Format-1: Application and approval of approximate estimation

<p>Application for approximate estimation</p> <p>ATT: _____</p> <p>Please kindly verify the application for approximate cost estimation for _____.</p> <p>Date: _____</p> <p>Applicant Name: _____</p> <p>Total Amount: _____ SDG</p> <p>Purpose: _____</p> <p>_____</p> <p>Attachments: Ex schedule</p> <p>Approved by _____</p>

Format-2: Sheet for sorting receipts

<p>Blank Sheet for Receipt</p> <p>No.</p> <p>(Attached receipt)</p> <p>Total Amount: _____</p> <p>Category: _____</p> <p>Description: _____</p> <p>Date: _____</p>
--

Format-4: Submission form of balance sheet

Balance report

ATT. Director of the PWCT

Please kindly verify the balance report as attached.

1. Name: _____
2. Date: _____
3. Purpose: _____
4. Advance payment: _____ SDG
5. Total Expense: _____ SDG
6. Balanced amount: _____ SDG

Approved by _____

Format-5: Refund

Refund

Attention: Director of the PWCT

Please kindly confirm the balanced refund below.

Name: _____

Date: _____

Advance payment: _____

Total Expense: _____

Balance: _____

Recovery cost: _____

Refund: _____

Approved by _____

CHAPTER IV

PWCT MANAGEMENT MANUAL

4-1. PURPOSE

The PWCT is responsible to implement training program for personnel of the SWCs. This manual aims at management improvement of the training center. The manual is composed of three sections, human resources, finance, facility & equipment.

4-2. ADMINISTRATION

This manual is managed by the Administration Department. Every training course is supervised by this department.

4-3. PERSONNEL MANAGEMENT

4-3-1. Personnel

The personnel in the PWCT are as follows;

- (1) The Director of the PWCT (1),
- (2) The Assistant Director (1)
- (3) The Accountant (1)
- (4) The Training Management (8)
- (5) The Kilo Ten Training Center (KTC) (3)
- (6) The Lodge Management (2)
- (7) The Secretary (1)

(1) Resume, CV

The PWCT must organize the resumes of trainees, lecturers and staff. Photocopies of passports should be prepared if necessary to go abroad for training.

(2) Attendance management

The PWCT must prepare attendance sheets according to the designated form. The Manager of the Administration Department is responsible to keep and check them.

(3) Leave application

The Leave (sick, holiday) application must be submitted to the Manager in advance. No application will be permitted except in advance.

(4) Schedule management

The schedule of the PWCT should be managed by the Manager of the Administration Department. The individual work schedule for a week must be shared. Travel plans

(domestic/abroad) should be informed to other colleagues in advance.

4-3-2. Management of Outsourcing Work

Cleaning work and food services are outsourced to other companies. The PWCT should provide identification cards to the outsourced company staff. Visitors must also wear ID cards on the chest.

4-3-3. Management of Lecturers

The Training Management Department is responsible to manage lecturer resources.

(1) Database

CVs should be submitted according to the designated form. The information in the resume, in which training course results are added, should be regularly updated.

(2) Fee

The lecture fee is 100 SDG per hour. The assistant lecturer fee is 50 SDG. Payment records must be kept and sorted on a training course basis as well as a lecture basis.

(3) Materials and equipment

Training materials and equipment should be checked before they are used. The expected materials must be placed on in appropriate position. Equipment in the KTC in particular should be set up with the manager of the KTC.

4-3-4. Trainee Management

(1) Data management

The Trainee database should be kept in the designated format. This database is used for organizing basic information to plan new training courses. The Training Management Department should organize trainee data. The PWCT is responsible to assess the trainee capacity for improvement, by using this data.

(2) Daily allowance, training expense and transportation

Payments for trainees should be cleared by the Administration Department. Daily allowance is 25 SGD per day. The training cost is approximately 1,000 SDG per one State (depending on the State). All payments require receipt. The PWCT should keep transparent finance in mind.

(3) Lodge management

The PWCT must follow the current lodge regulation until the new training center completes construct in 2011.

(4) Food services

It is important to serve suitable foods during the training periods. The PWCT is

responsible to assess the trainees' needs about food quality and quantity. Food services are so far outsourced to other companies, although the quality is questionable. It is important to provide food according to the needs assessment of quality, quantity and place. The number of the participants, for example, includes lectures and coordinators.

(5) Health management

The PWCT is responsible to prepare for accidents or sickness of trainees during the training periods. The hospital contact numbers should be checked for an emergency. Medicines should be stored for less severe illnesses at the management office.

4-3-5. Equipment Management

The PWCT has two kinds of equipment. One is provided by JICA and the second is procured by the PWCT. The Equipment should be managed by using the Equipment Management Manual. The manual deals with training equipment and water quality analysis equipment. The Manager is responsible to procure necessities and repair the equipment, as well as checking the current condition.

(1) Furniture and supplies in the lodge

The lodge has air conditioners, TV, fan, freezer, laundry, water dispenser, pot, dishes, and refreshment supplies (coffee, tea, sugar). Beds, closet, tables & chairs, sheets and pillows are furniture as well. This furniture and supplies are necessary for a comfortable life in the lodge. The Manager should maintain them properly. The manager is also responsible to take prompt action when the trainees call for improvement of the equipment that does not work well such as toilets and showers.

4-3-6. Facility Management

The PWCT is responsible to appoint the facility manager and the manager's name should be clearly displayed on the board.

(1) Training rooms

The PWCT has three training rooms. Two of them are located on the first floor in the PWC building. The other is managed in the KTC.

The main work here is as follows; cleaning and maintenance of light tubes, electricity, tables, chairs, projectors, screens, white board setting, and mikes.

(2) Computer room

The computer room in the PWCT has 16 computers, which are protected by dust covers. It is important to protect the computers from heat and dust. The manager is responsible to keep them in good condition. Furthermore, the manager should

regularly check for computer virus infections.

(3) The Water Quality Analysis room

The Water Quality Analysis room has valuable equipment and materials that need careful treatment. High temperature and dust must be carefully avoided. Public utilities such as gas and water conditions must be controlled as well. The management system must be based on the Manual for Water Quality Analysis Equipment (See the Equipment Management Manual)

(4) Assembly hall

The PWCT has an assembly hall, in which formal conferences and seminars are occasionally held. Necessary equipment such as mikes, electricity, projectors, air conditioners and tube lights must be checked beforehand and the hall must be kept clean. A power failure must be avoided since it could cause serious troubles which prevents overall functioning of the conferences.

(5) Lodge management

The PWCT has a lodge for trainees and other visitors. See the Lodge Management Manual.

(6) Kilo Ten Training Center

See the KTC Management Manual.

4-3-7. Standby Generators

The PWCT is responsible to manage the standby generators, which are prepared in case of a blackout in Sudan. The PWCT should take prompt response against an electricity power down during the training periods. The following tasks are necessary.

- (1) The most responsible manager is assigned by a document in which the responsibility is clearly described.
- (2) The next responsible manager is also appointed by a document in which the responsibility is clearly mentioned.
- (3) The managers mentioned above are responsible to start up the standby generators within five minutes immediately after the power down.
- (4) The managers must take care of the generators on holidays during the training periods.
- (5) The managers must switch over swiftly once commercial electricity is retrieved.
- (6) Overhauling the generators should be carried out periodically.
- (7) Operation records must be kept.
- (8) Procurement and storing of the necessary parts should be carried out
- (9) The environment surrounding the generators should be kept clean.

4-3-8. Financial Management

See the Budget Management Manual and the Accounting Manual.

4-3-9. Document Management

The PWCT preserves several kinds of documents. Documents should be systematically managed as follows;

(1) Meeting records and minutes

The PWCT expects to hold various level meetings such as the JCC meeting, meetings with SWCs personnel, regular meetings with Donors like JICA, and internal meetings. A responsible person will be appointed to keep meeting records. The records must be shared and preserved in designated folders and digital data folders.

(2) Reports

Reports such as training reports, JICA project monthly reports, JICA Progress reports and various survey reports should be preserved in the library, although so far most documents have been preserved in the JICA Expert Office in the PWCT.

(3) Training course manuals

The Training Course Manuals are preserved in the JICA Expert Office and the training course coordinator room. The manual should be utilized as a handbook by every staff member. Possible revision should be considered by the staff and the revised version should be shared with every concerned staff member.

(4) Textbooks for training courses

24 textbooks for the past programs will be archived in the library which is expected to be constructed in the new training center in the future.

(5) Reference books for training courses

Reference books which were procured at the time of training in Japan (in 2009 and 2010) are now archived in the PWCT. Those books are stored in the JICA expert office to avoid theft and loss, although all books have PWCT' serial numbers. The PWCT will be responsible to keep those books in the new library in the future.

(6) Letters and mail

All letters related to training implementation such as invitation letters or guidance of the conferences should be preserved according to the timeline. The Administration Department is responsible to manage the documents.

CHAPTER V

LODGE MANAGEMENT MANUAL

5-1. PURPOSE

This manual summarizes the task and management procedure of the lodge in the PWCT. The primary purpose of lodge management is to provide a better environment for trainees who will stay and study for two weeks. PWCT Staff must dedicate themselves to improve the lodge environment.

5-2. OPERATION AND MAINTENANCE

The organizational structure of operation and maintenance of the lodge facility is shown in Fig-1. The residence management division is responsible for the lodge facility. The division is in charge of reception, room management, cleaning, and supervision of food services that is outsourced.

5-2-1. Residence Management Division

The Residence Management Division is responsible to keep the lodge well managed.

5-2-2. Reception

The Staff in the reception room is responsible to manage trainees' checking in and out. Filling in the registration card, key management, provision of uniforms, allowance, guidance of lodge usage are the main tasks of the reception room staff.

5-2-3. Lodge Manager

The lodge manager is responsible to look after everything during the trainees stay. Food services, schedule management, taking care of room condition, consultation are included in his tasks. The manager must stay on the fourth floor during the training course period.

5-2-4. Cleaning

The Cleaning manager is responsible to keep the facility clean every day. The manager shall replace sheets for bed mattresses every two days. Garbage must be disposed of every day.

5-2-5. Food Services

Breakfast and lunch are provided by the PWCT during the trainees' stay. Food services are provided by the company with which the PWCT made contract. Every lodger is also able to

cook food by himself using kitchen on the fourth floor. The lodge manager should be informed in advance in the case of cancellation for food services.

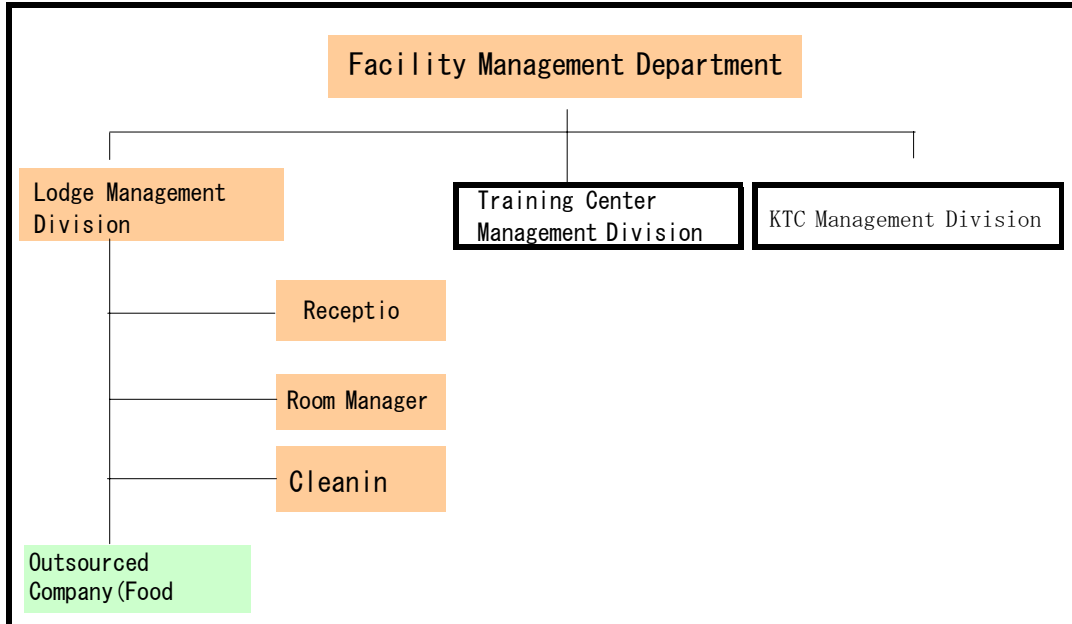


Figure 5-1. Organizational Structure

5-3. OVERVIEW OF THE LODGE FACILITY

The lodge for trainees is located on the fourth floor. Nine rooms (406, 407, 408, 409, 410, 411, 412, 414, 417) are for accommodation. The total capacity is 29 people. Two beds for three rooms, three beds for five rooms, and four beds for two rooms are equipped. The lodge has two toilets, one recreation room, one restaurant, one kitchen, one mosque, one office. The office, recreation room, kitchen, restaurant and mosque can be used 24 hours.

Table 5-1. Overview of the Lodge

Number	Capacity	Usage	Number	Capacity	Usage
401	-	Storage1	410	2	Bedroom
402	-	Mosque	411	3	Bedroom
403	-	Storage2	412	4	Bedroom
404	30	Restaurant	413	3	Recreation
405	-	Kitchen	414	3	Bedroom
406	2	Bedroom	415	-	Office
407	3	Bedroom	416	-	JICA
408	2	Bedroom	417	4	Bedroom
409	3	Bedroom			

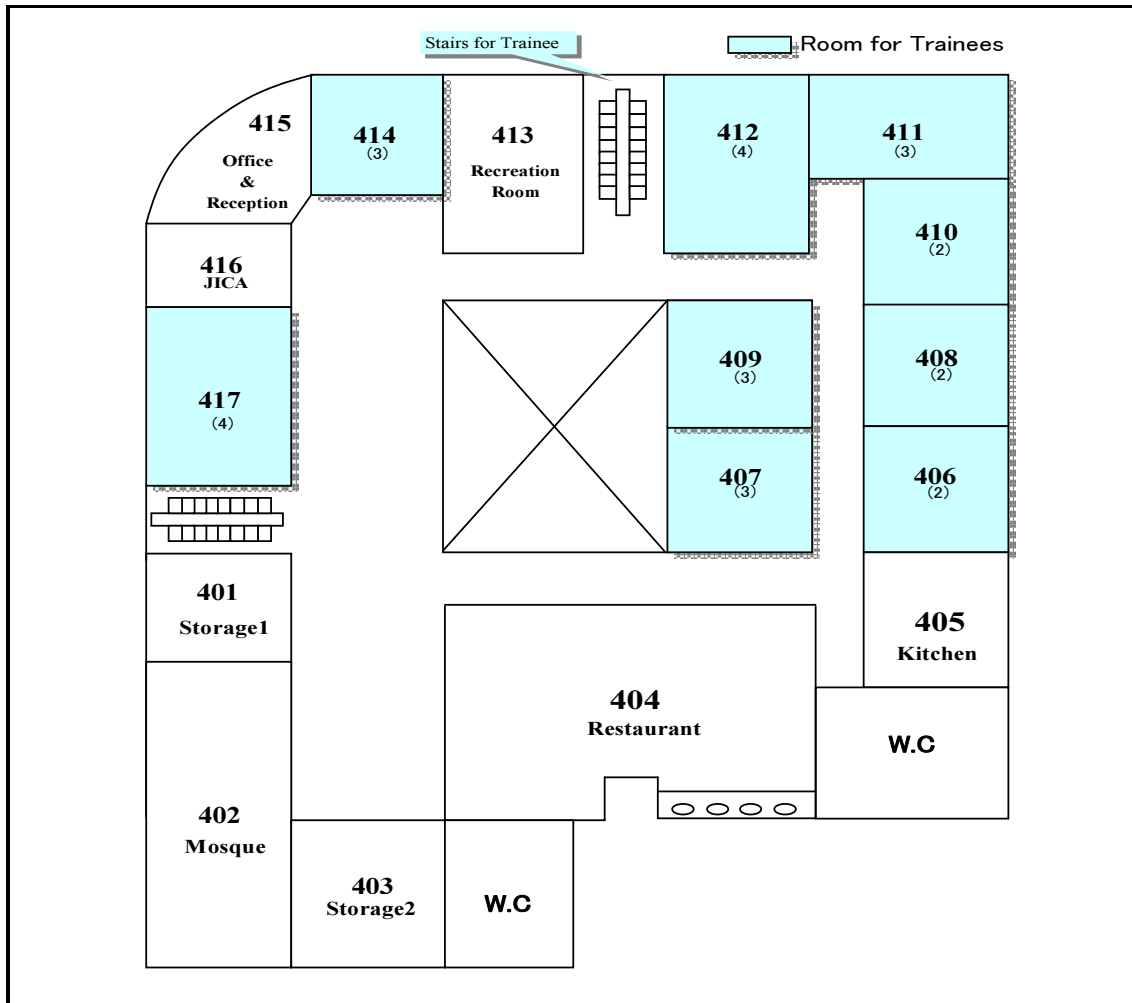


Figure 5-2. Overview of the Lodge

5-4. MANAGEMENT PROCEDURES

5-4-1. Data Management

The lodge Manager must keep trainees information. Information about names, organizations, positions, contact numbers should be carefully kept and the list must be prepared. The Manager must check the reception of trainees.

5-4-2. Prior Announcements

Generally, it will be the first time for most trainees to stay in the lodge of the PWCT. It is important to inform the user rules of the facility and any other information to ease the trainee feeling beforehand. The Manager should check that the equipment is well managed and store any supplemental goods.

Table 5-2. Personal Belonging

Provided by the PWCT	Personal belonging
Rooms	Clothes
Beds, pillows, sheets	Towels
Lockers	Toilet goods
Desks and Chairs	Medicines
Allowance	Cell phones
Uniform	Stationary goods
Breakfast and lunch	Cash
Recreation Rooms	Shoes

5-4-3. Room Allocation

Again, it is important to consider the room allocation for each trainee since it could be stressful for trainees to stay with strangers for two weeks. However, it is also difficult to quantify the stress for each trainee. The PWCT will allocate rooms for trainees according to the drawing at the reception. No change can be basically permitted.

If fewer trainees are present, the PWCT can allocate a four bed room for three people. Two can stay in the three bed room.

5-4-4. Reception

Check-in starts from 10:00 and must be finished by 16:00 on the previous day before starting training course.

- The reception should provide the registration card after checking the trainee's name.
- The trainee should fill in the necessary information on the registration card.
- The receptionist should draw lots for room allocations.
- The receptionist should check the room number and give the card to the trainee.
- The receptionist should also give the room key to the trainee.
- The receptionist should provide a uniform.
- The trainee should sign in
- The receptionist should introduce the facility

5-4-5. Key Management

The room Manager should keep three keys for each room. One is for the trainee and the second is for the room cleaner and the last is the master key. The master key must be kept in the safety box in the office for preparing in case of loss. The room cleaner should return the

key to its original position after finishing work.

To avoid a lost key, the PWCT should take counter measures as follows.

- The receptionist should give one key to a responsible trainee in each room
- A tag with the room No. is put on the wall
- The responsible trainee in each room should bring the key back every morning before starting the training program.
- In case of loss, the trainee should submit a loss report.

5-4-6. Orientation

It is important to hold an orientation program. The Lodge Manager should in particular give a clear presentation about lodge regulations. The program is as follows.

Table 5-3. Orientation Program

No	Title	Subject	Time(min)	Speaker
1	Greeting	Training Purpose	10	Director of the PWCT
2	Lodge regulation	Including Q&A	30	Lodge Manager
3	Overview of the PWCT	Facility, staff, annual plan, and JICA relation	20	Director of the PWCT
4	Training program	Purpose, schedule, place, program, lecturers	40	Coordinator
5	Questionnaires	Study on SWCs situation, evaluation of lecturers, training courses and lodge	20	Coordinator
6	Water Policy in Sudan	Including Q&A	60	PWC
7	Water situation in Sudan	Including Q&A	60	PWC

5-4-7. Main Work

Organizational support is the key for the two weeks training success. Especially, lodge management is an essential factor. The staff should pay attention to the following issues.

Table 5-4. Working Check list

No	Point to be checked	Manager	Check
1	Key for each room is managed		
2	Air conditioners, TV, water supply is working		
3	Medicine is equipped		
4	Toilet goods are equipped		
5	No trouble among trainees occurs		
6	Personal belongings are well managed		
7	No theft and other trouble		
8	Trainee keeps regular hours		
9	No health problem		
10	Counseling		
11	Every room is well organized and kept clean		
12	Garbage is regularly disposed of		
13	Sheets are regularly replaced		
14	Food services (Quantity and Quality) are well managed		
15	Communication with food services are well managed		
16	Plate, knife and fork are always clean		
17	Sanitation in the kitchen is well managed		
18	Contents of the freezer are safe		
19	Seasoning is adequate		

5-4-8. Work After the Training Courses

The Lodge Manager must do the following tasks.

- Checking keys
- Lost personal belongings
- Checking that room furniture is equipped
- Checking Public space
- Quantity and quality of sheets and dishes
- Check the repair list
- Collection of questionnaires

5-4-9. Data Analysis and Preparation for Coming Training Course

The lodge Manager should prepare a report on the work and problems during the training course. Trainee needs should be discovered through Questionnaire analysis. Problems should be dealt with in upcoming training courses. Furthermore, supply shortages must be solved.

CHAPTER VI

KILO TEN TRAINING CENTER MANAGEMENT MANUAL

6-1. PURPOSE

Kilo Ten Training Center (KTC) is the facility for training of the PWCT which is located in the Kilo Ten district in Khartoum. It started in January 2010. The PWCT has so far two training facilities including the KTC. All training function will be transferred to the KTC in the near future. Therefore it is important to manage the KTC well.

This manual aims at improvement of operation and maintenance of the KTC.

6-2. OVERVIEW

The KTC has a main office, a laboratory, a workspace for practical training, equipment room, a saloon, and a pipe practice room, inside the building. The solar pump system and tank, wells for pumping tests and borehole camera tests, pond, facility for pipe leakage tests and containers are provided outside the building. Green area such as green grass planting and a flower garden is developed around the facility.

On the other hand, the KTC preserves various kinds of equipment such as fork-lifts, air-compressors, generators (including unfixed ones) welding machines, freezer, a copy machine, cutting model, pumps and controll panels. See the list in the equipment management manual.

6-3. MANAGEMENT SYSTEM

A manager for Equipment and a manager for the facility have been assigned. Mr. Bashary, the Manager of the KTC, is responsible for equipment. Ms. Emam has been assigned facility manager since January 2011. The maintenance of the facility is so far outsourced to another company. The manager must check its performance.

6-4. METHODS

6-4-1. Facilities Inside the Building

An office, a training room, a saloon and an equipment storage are provided. A hall for electricity training and a hall for pipe-network have also been provided.

- 1) Cleaning in detail, twice a week
- 2) Dust on the equipment should be wiped off
- 3) Repair of curtains and glass frames
- 4) To make air conditioners, tube-lights, fans, outlets work, frequent checking

- 5) To install disposal container at the corner of the room and instruct everyone not to cause a mess.
- 6) To fix the cracks in the wall or window frames and protect the room from outside dust

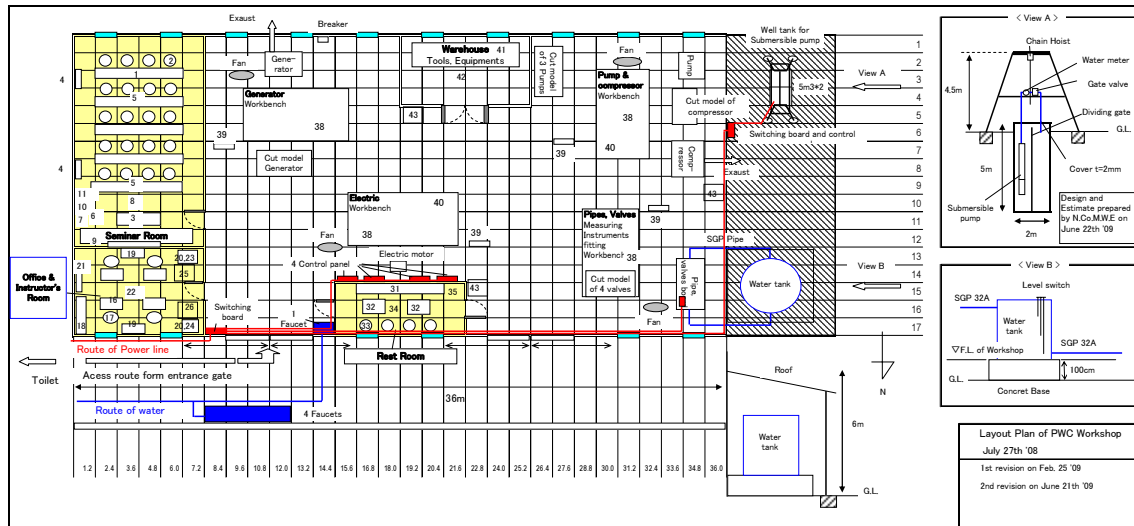


Figure 6-1. KTC Facility Design

6-4-2. Facilities Outside the Building (No.1 area)

There are two areas where equipment was installed. One is around the solar system. The second is around the water wells. The environment around the solar system is now remarkably developing into a plant green grass and a flower garden. A solar pump system, wells, flower garden, toilet and common faucet have been developed.

- 1) It is important to keep the surface of the solar panel clean regularly. First, water spray, and second, dust removal on the surface must be conducted.
- 2) Weeds around the flower garden below the solar panel should be removed.
- 3) As the wells are not covered so far, it is possible that stones or dust have been thrown into the well.
- 4) The wells must be temporarily covered until a protection house is constructed.
- 5) The green glass fields must be well fed by the water spray bar, however, even so, weed killing is not sufficient. The manager should protect the green grass field, using a tool to kill the weeds.
- 6) The manager should keep the green grass field clean. The garden behind the toilet should be regularly sprayed by hose pipes.
- 7) There are two toilets. One is for the PWCT and the other is for visitors. The toilet for the PWCT must be locked and kept clean.
- 8) The common faucets should be kept clean and fixed if damaged.

- 9) It is not necessary to look after the water supply tank. However, so far, pipes for overflow prevention have not been installed yet. Water discharge from the tank top might cause damage to the garden. It needs prompt countermeasures.

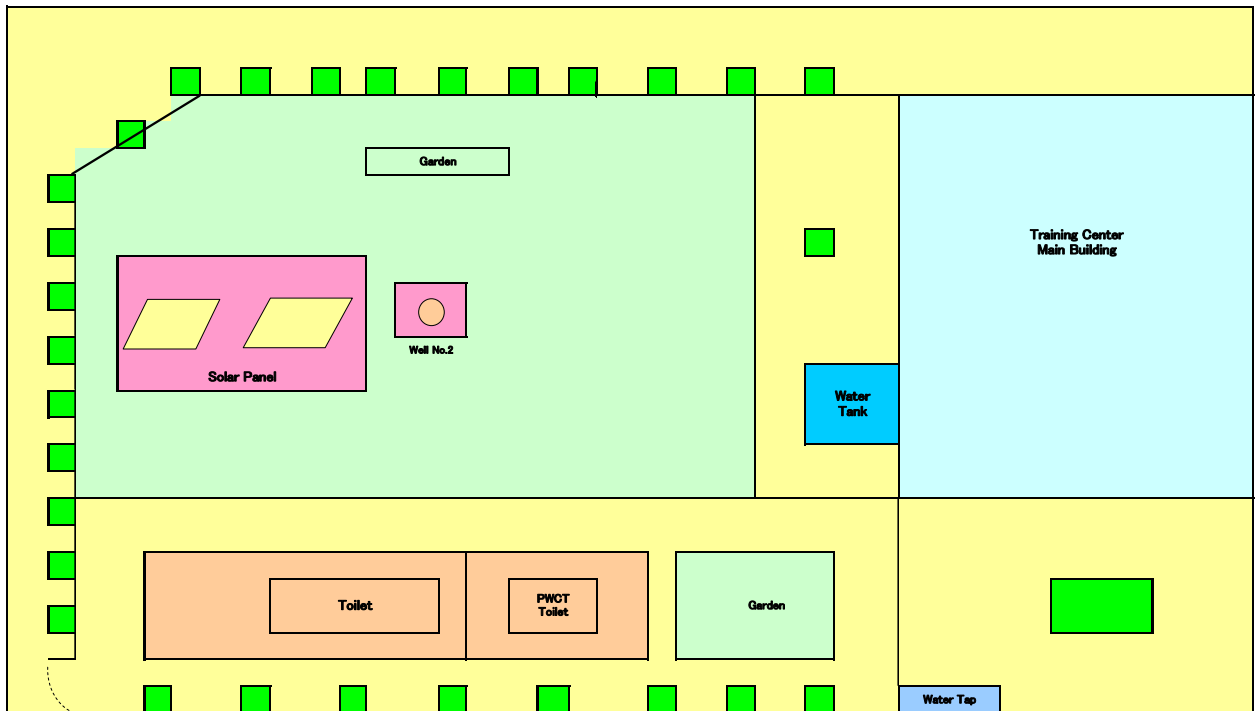


Figure 6-2. Overview of No.1 Area

6-4-3. Facilities Outside the Building (No.2 area)

This area is located between the KTC gate and the main building. Containers, a pipe leakage testing field, a pumping testing well, pond and plants are installed.

- 1) The PWCT has three containers. Although no maintenance is required for the boxes, the contents inside should be checked every three months.
- 2) The pipe leakage testing field has two parts (on the ground part and underground part). Maintenance work is not necessary except removal of garbage and trash.
- 3) The pumping test site is the main facility around the No.2 area. Trash and cracks on the well must be checked.
- 4) The pond is used for temporary discharged water storage when practical training of piping tests or air lifting demonstrations are implemented. There will normally be no water in the pond if no training course is going on. However, trash could be blown on the water if it is filled with water. It should be removed if found.
- 5) The Planted zone is laid along the barbed wires which surround the KTC. The water spray should be fed so that this plant will provide shade in the near future. The

planted zone around the well should be looked after in particular.

- 6) Gate security is by the entry gate. So far, there has no assignment to check visitors by security guard. It is also found that there is clutter around the gate. The manager must keep it clean.

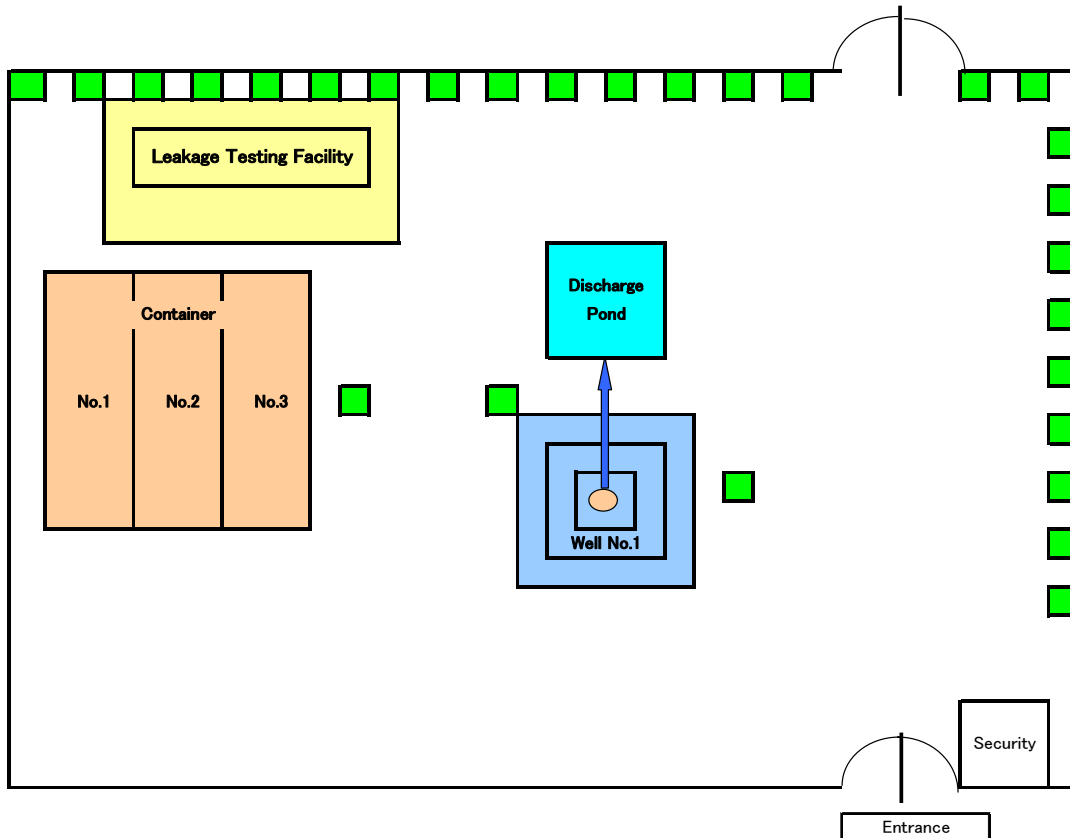


Figure 6-3. Overview of No.2 Area

CHAPTER VII

EQUIPMENT MANAGEMENT MANUAL

7-1. INTRODUCTION

The present number of total equipment stored in PWCT (Public Water Corporation Training Center) is about 1,000 units and around 353 equipment was procured by JICA. These items are necessary to carry out the training course in PWCT.

The staff who is in charge of the equipment management must manage all equipment to effectively and safely operate them.

Therefore, PWCT can proceed smoothly and receive high quality training in the equipment management. The equipment management system consequently becomes a backup system in PWCT.

At first, the staff has to make a database of equipment to understand the recent situation of equipment (its accounting and location). That way, the staff can order repair of the equipment, and replace the spare parts from this information. And it's also a very important job for the staff to keep all equipment in normal operating condition.

7-1-1. Purposes of Equipment Management

The purposes consist of four parts which are "The accounting of equipment", "The maintenance of equipment", "To streamline the job" and "Safety while at work".

(1) Accounting the number of equipment

Correctly counting the number of equipment is the basis of equipment management. Most of the equipment will need to be repaired and replace after longtime use. The equipment manager has to recode the input-output recode every time. And then, the staff should confirm the number of equipment.

That way, the manager can judge the timing of the new purchase of equipment and consumables.

To confirm the number, the manager has to check the number of equipment on the database. And then the staff checks the actual number of those in storage. This is an inventory count.

That way, PWCT would stop equipment and property loss by use of the inventory count.

(2) The maintenance of equipment

The staff has to keep the equipment operating normally. If the equipment isn't operating properly, PWCT's job would stop. So they must do periodic maintenance, and keep PWCT clean. Periodic maintenance is necessary because the staff can guard the equipment

against trouble before happens. Therefore, the period of depreciation of the equipment will be quite different with or without maintenance.

At first, the manager should make a usage list and an operating recode. Then recode the history of repair and replacement. That way, the staff can get the timing of replacements like spirants or oil.

Especially in Sudan, PWCT should keep a dust control measure form because dust causes equipment trouble.

Refer to chapter 6 about maintenance and cleaning.

(3) To streamline the job

If the course coordinator can find the correct location of all equipment, the coordinator can perform an efficient job.

On the other hand, if the coordinator can't discover the location, someone will have to spend a lot of time to prepare the equipment. This loss will cause trouble in training. The manager has to classify the location of storage by ID code. And the manager records the data of location in an inventory. The staff should periodically clean the storage to maintain the storage spaces. The arrangement of equipment is also very important. The staff should arrange the position of equipment and use the necessary equipment smoothly.

(4) Safety while at work

Course Coordinators and all trainees must maintain safety while at work.

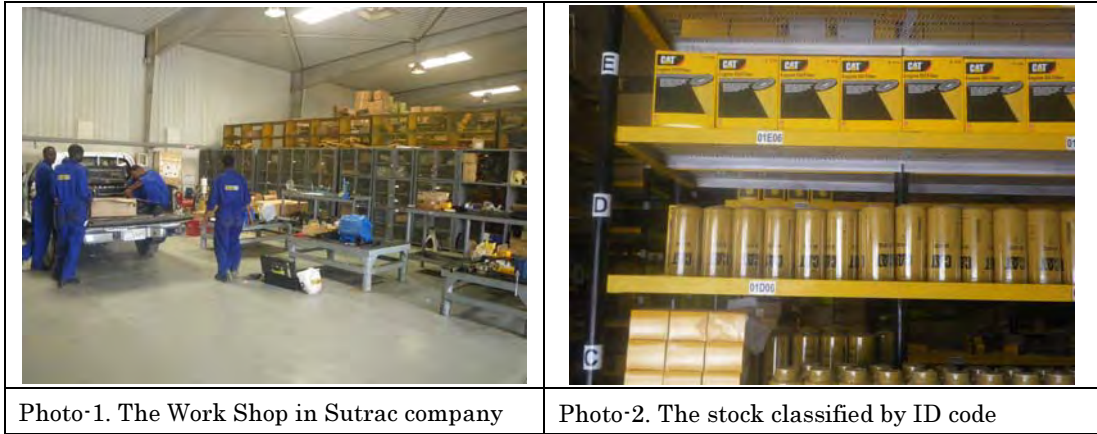
Therefore, the staff has to do periodic maintenance of equipment. And the staff has to open a lecture of its operation for beginners. The staff must maintain the instruction manual of equipment as an important document. And, keeping space in the store will cause the risk of accidents to decrease.

7-1-2. Equipment Management System in Private Company (Example: Sutrac. Co., Ltd.)

The staff can find the role model in Sudan. For instance Sutrac Company is a good example. The company has good equipment management. The company is in charge of the selling sector in Sudan of Caterpillar Company, the biggest heavy-equipment manufacturer company in the country.

The company manages enormous stocks in their storage workshop. The company keeps area tidy and cleans their storage. The company puts equipment in order in coded shelf. And the company keeps the goods in the shelf locked with a key. The company consequently can get tools quickly.

Kilo Ten Training Center (KTC) has to adopt the same management system as this company. KTC has to build a management organization system of a public company.



7-2. EQUIPMENT MANAGEMENT SYSTEM

7-2-1. Main Job

Mainly, the job for equipment consists of four parts.

- (1) Database Management
- (2) Maintenance of equipment
- (3) Cleaning
- (4) Checking the number of equipment (taking inventory)

The interval of these jobs depends on the contents of the job. That is it can be daily work, every day, three months work or irregular work. Figure 7-1 shows the outline of the work, Table 7-1 shows details of the work.

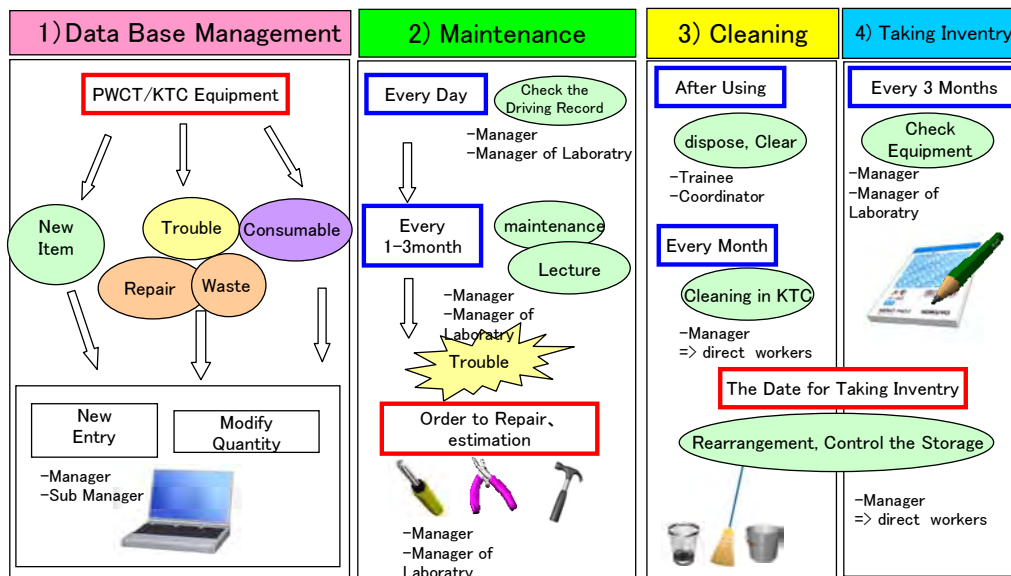


Figure 7-1. The Outline of Work

Table 7-1. The List of Work for Equipment Management

Job List		Detail	Daily	Periodic	Irregular
(1) Data Base Management	①Entry New Item	a) Clasificate the Category			√
		b) Check the Spec, and input the Data			√
		c) Input the Data of Equipment			√
		d) Taking a Photo for New Item			√
	②Modify the Quantity of Equipment	e) Input the Quantity of Each Equipment			√
(2) Maintenance	①Check the Driving Record	Decide the timing of replacement	√		
	②Maintenance	Check the Oil, the Filter, etc After Using		√	
	③Lecture	Keep the Manual of Equipment, Open the Lecture		√	
	④Order to Repair	Order to Repair , Estimation			√
(3) Cleaning	①Cleaning	a) Keep Clean After Using the Equipment	√		
		b) Cleaning in KTC	√		
		c) Rearrangement of Storage		√	
(4) Taking Inventory	①Every Three Month Check Equipments	a) Modify the Quantity of Equipment		√	
		b) Confirm the		√	
		c) Rearrangement, Control the Storage		√	

7-2-2. The Organization in KTC

Figure 7-2 shows an organization chart of equipment management.

The organization consists of an equipment manager, two assistants and the manager of the laboratory.

- (1) The organization staff manages all equipment, and put it on recode.
- (2) The manager and assistants have to maintain equipment and check the operating recodes except water quality instrument. The manager of the laboratory has to maintain and check the water quality instruments.
- (3) Theoretically, the person who uses the equipment should take the initiative in cleaning at storage.
- (4) The organization staff has to check all equipment (inventory count) every three months.

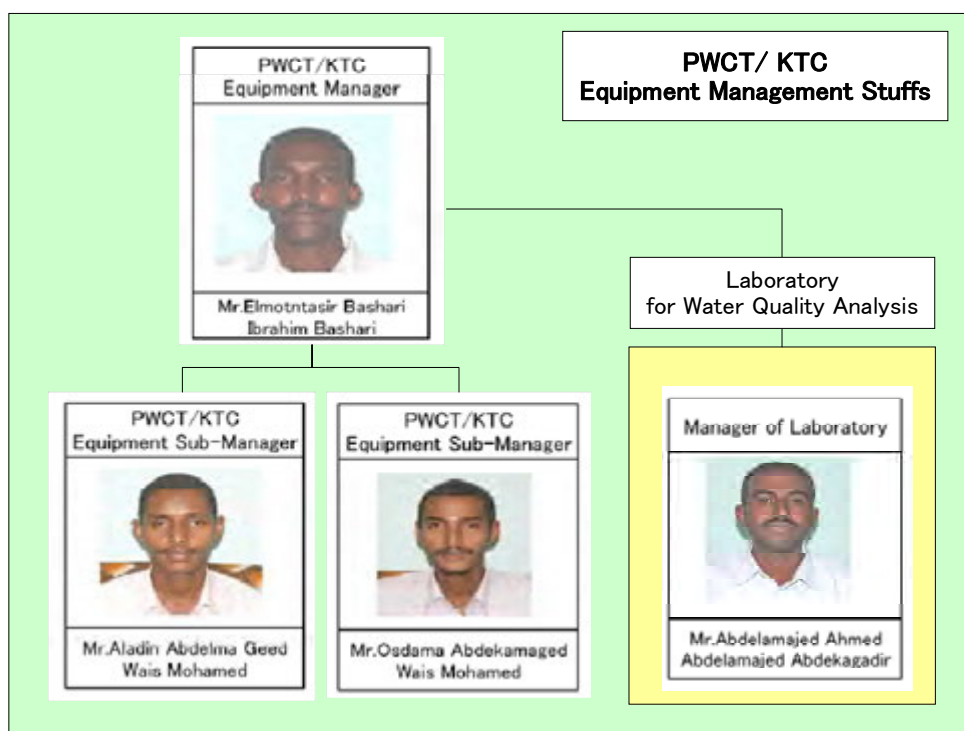


Figure 7-2. Organizational Chart

7-3. LIST OF EQUIPMENT MANAGEMENT

Equipment procured by JICA and by PWCT is combined in PWCT.

The staff can distinguish each other by the logo mark of JICA. However, the staff need not distinguish both to manage all equipment. The manager has registered only equipment procured by JICA in July, 2010. Therefore, the manager should register equipment procured by PWCT in an inventory, according to this manual.

7-3-1. The Equipment Procured by JICA

The number of items procured by JICA is 353, and the sum total number of equipment is 913.

Table 7-2 shows the number of items and sum total number.

Figure 7-3 shows the proportion of items in every category. Figure 7-4 shows the number of items in every category and every storage. This manual describes the details of category in the Chapter 7-4 , “The Establishment of Equipment Management System”.

Table 7-2. The number of Item and Sum Total Number (Items, Numbers)

CatID	Category	Typical Equipment	Number of Item		Total
			PTCT	KTC	
01	Major Equipment	Major Equipment (Forklift, Compressor, Generator) Control Panel	24	0	24
02	Tools	Tools (Wrench, Spanner, Driver, Hammer) Pumping Test Equipment (Pumps, Pipe, etc) Consumable (sheel, Working Glove)	167	0	167
03	Testing and Survey Equipment	Tester, Cramp meter Water level meter GPS	16	1	15
04	Water Quality	Water Quality Instruments	26	26	0
05	Display Model	Cut-Away Model	9	0	9
06	Office Equipment	PC, Printer, Scanner, Software Projector, Camera, Video Camera UPS, Translator Desk, Chair, Cabinet	70	48	22
07	Reference Book	Reference Book	41	41	0
	total		353	116	237

As follows, this manual explains the detail of equipment procured by JICA.

- (1) Category “Tools” accounts for almost half (167 items, 47%) of all items. All of them are stored in KTC.
- (2) Category “Major Equipment” and “Display Model” accounts for 7% (24 items), 3% (9 items) of all items. As “Tools”, all of them are stored in KTC
- (3) Category “Testing and Survey Equipment” accounts for 5% (16 Items) of all items. The equipment are stored in KTC except the GPS. The GPS is stored in PWCT.

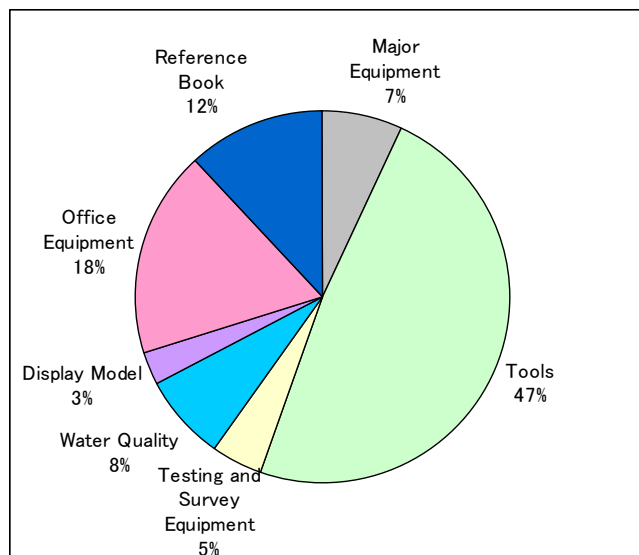


Figure 7-3. The Proportion of Item in Every Category

- (4) Category “Office Equipment” accounts for 18% (63 items) of all items. They are stored

in PWCT and KTC. The training center needs the items like desk, chair and white board in both places.

- (5) Category “Water Quality” accounts for 8%(26 items) of all items. All of them are stored in the laboratory.
- (6) Category “Reference” accounts 12% (41items) of all items. All of them are stored in PWCT.

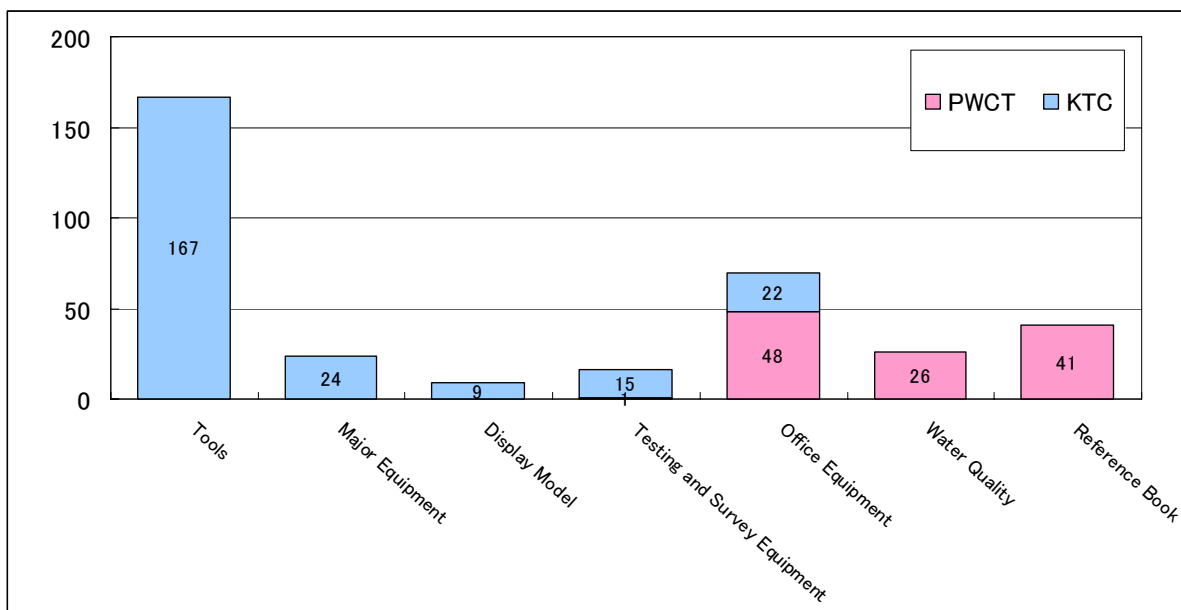


Figure 7-4. The Number of Item in Every Category and Every Storage

7-3-2. The Equipment Procured by PWCT

The manager of the laboratory and the JICA expert put on recode and checked the quantity of items at the laboratory in January, 2010.

In the result, the number of items procured by PWCT in the laboratory is 191. However, the manager didn't check the total number of items in the other place. In the future, PWCT will manage the equipment procured by JICA and PWCT equally. Therefore the staff has to check the number of all items in each storage area.

7-4. THE ESTABLISHMENT OF EQUIPMENT MANAGEMENT SYSTEM

The staff has to establish a database showing the store location, the quantity, and the specification, because the staff has to carry out equipment management effectively and correctly. The database has two functions. The functions are the reservoir of data, and the output of this data. The software which is able to sort, extract and transform the data will be effective to establish the database. The “Access” which is software for database management has the function to establish the database. If the staff uses the “Access”, the staff will have to learn and practice with this software. But it is difficult to acquire it for them in the short term. On the other hand, the staff use “Excel” on a routine basis and operate it easily. Therefore, the staff should use “Excel” software which is spreadsheet software to establish the database.

7-4-1. The Classification of Equipment

The equipment is classified by ID code. Classification has three degrees. The degrees are large, middle and small classification.

(1) Large Classification (a information of the location)

Large classification is controlled by a StID code. The StID code consists of alphabet and double-digits.

At first, this manual classifies the location of storage into PWCT and KTC.

The alphabet “A” stands for storage in PWCT, “B” stands for storage in KTC.

And then, this manual classifies the 14 locations. Double-digits stand for the storage location of equipment. Table 7-3 shows StID code list.

This manual classifies the location of store in PWCT into 9 locations. The locations are Director Room, PC Room, Seminar Room1, Seminar Room2, Printing Room, Coordinator Office, Expert Office, Laboratory and PWCT Hall.

KTC is located around 10 km southeast of PWCT. This manual classifies the location of storage in KTC into 7 locations. They are Office, Seminar Room, Resting Room, Tools Store, Storage, Experimental Room and Field. This manual describes the arrangement of equipment in Chapter 7-5, “The Arrangement of Each Equipment”.

Table 7-3. StID Code List

StID	Location	StID	Store
A	PTCT	A01	Director Room
		A02	PC Room
		A03	seminar Room1
		A04	seminar Room2
		A05	Printing Room
		A06	Coordinator Office
		A07	Expert Office
		A08	Laboratory
		A09	PWC hall
B	KTC	B01	Office
		B02	Seminar Room
		B03	Resting Room
		B04	Tools Store
		B05	Storage
		B06	Experimental Room
		B07	Field

(2) Middle Classification (information of the location)

Middle classification is controlled by a CatID code. The CatID code consists of double-digits standing for the category of equipment.

This manual classifies the category of storage in PWCT into 7 categories. They are Major Equipment, Tools, Testing and Survey Equipment, Water Quality, Display Model, Office Equipment and Reference Book.

Photo-5, 6, 7, 8, 9, 10 and 11 show typical photographs of the equipment by the category. Table 7-4 shows CatID code list.

Table 7-4. CatID Code List

CatID	Category	Typical Equipment
01	Major Equipment	Major Equipment (Forklift, Compressor, Generator) Control Panel
02	Tools	Tools (Wrench, Spanner, Driver, Hummer) Pumping Test Equipment (Pumps, Pipe, etc) Consumable (shovel, Working Glove)
03	Testing and Survey Equipment	Tester, Cramp meter Water level meter GPS
04	Water Quality	Water Quality Instruments
05	Display Model	Cut-Away Model
06	Office Equipment	PC, Printer, Scanner, Software Projector, Camera, Video Camera UPS, Translator Desk, Chair, Cabinet
07	Reference Book	Reference Book
	total	



Photo-5. CatID_01 “Major Equipment”
Typical photography “Air compressor”



Photo-6. CatID_02 “Tools”
Typical photography “Double glass wrench”



Photo-7. CatID_03 “Testing and Survey
Equipment” Typical photography “Tester”



Photo-8. CatID_04 “Water Quality”
Typical photography “Atomic Absorption
Photometer”



Photo-9. CatID_05 “Display Model” Typical
photography 「Cut-Away mode」



Photo-10. CatID_06 “Office Equipment”
Typical photography 「Desktop Computer」



Photo-11. CatID_07 “References Book” Typical
photography

(3) Small Classification (individual information)

This manual classifies all equipment by large and middle classification. And, the manager adds them and registers the ItemID of equipment in the database. Hence, when PWCT purchases new equipment, the manager must add an ItemID to the new one. A portion of the equipment is the consumable goods which are like a seal tape and working glove. The manager discusses with the coordinators which are consumable goods. The rule of registration for consumables is as follows.



1) Not consumable goods

The staff should repeat the maintenance of this equipment to extend its life span. The staff adds the ItemID to the equipment even if it is same kind as the other one. Accordingly, the staff can understand the situation of all equipment.

2) Consumable goods

In the case of consumable goods, here are many which see the same kind of goods. The life span of consumable goods is generally short. Therefore the stock turnover is fast. The staff has to stock the same kind of goods and check its quantity after use. The result is that the staff can prevent shortages. This manual consequently decides the same kind of consumable goods have same ItemID. That way, the staff can understand easily its quantity. And, the staff can predict the timing of additions and the order of new equipment.

7-4-2. EqtID Code

(1) EqtID code

The database has other information of quantity, model, specification and purchase date. The indication method of EqtID is as follows.

The EqtID consists of a single character in alphabet and 8-digit number.

Large category (CatID) - Middle Category (StID) – Small Category (ItemID)

Table 7-5 shows an EqtID as an example. The number up to the 4th digit stands for the ItemID. The character of alphabet and the number from 5 to 8-digit stands for the StID and CatID.

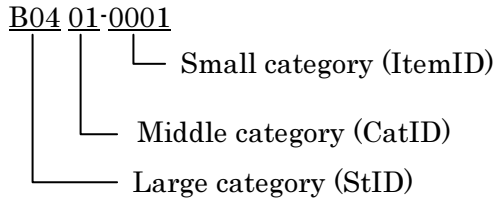


Table 7-5. EqtID as an example

StID	CatID	Category	Store	ItemID	Item	EqtID
B04	01	Measure Instrument	Storage	0001	Tool set in a aluminium case	B0401-0001

(2) The label of EqtID code

The manager registers the EqtID into the database. After that, the manager prints immediately the ID on the label by label maker “DYMO”. “DYMO” can print the alphabet and the number on the label sticker in a 9mm width. It is a hand tool type. The staff sticks the label on an easy-to-find position of the equipment.

Hence, the staff can crosscheck the equipment stored with EqtID. And then, the staff checks the EqtID by the label on the equipment to make an inventory.



Photo-13. the label maker “DYMO”



Photo-14. example: the tool put the ID label

7-4-3. New Entry to Inventory

The procedure of new registration is as follows:

Table 7-6 shows an inventory from Table 7-7 shows a photographic inventory.

- (1) Open the excel sheet "Registration".
- (2) Select the information of store "StID".
- (3) Select the information of category "CatID".
- (4) Enter the ItemID. The number is the running number.
- (5) EtqID is determined by the procedure from (1) to (4).
- (6) Enter the model, the specification and the purchase date.
- (7) Take a picture of the equipment. And register the picture into the photography inventory.

Table 7-6. The Form of Inventory






Inventory of Equipment in PWCT

S#D	Ca#D	Item#D	Category	Store	Item	Eq#ID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0001	Tools	Tools Store	Tool set in a aluminium case	E0402-0001		2			1-Jun-09	
B04	02	0002	Tools	Tools Store	Tool set in a aluminium case	E0402-0002		2			1-Jun-09	
B04	02	0003	Tools	Tools Store	Double glass wrench	E0402-0003		1	WIGEX	6.7mm	1-Jun-09	
B04	02	0004	Tools	Tools Store	Double glass wrench	E0402-0004		1	WIGEX	8.8mm	1-Jun-09	
B04	02	0005	Tools	Tools Store	Double glass wrench	E0402-0005		1	WIGEX	10x11mm	1-Jun-09	
B04	02	0006	Tools	Tools Store	Double glass wrench	E0402-0006		1	WIGEX	12x13mm	1-Jun-09	
B04	02	0007	Tools	Tools Store	Double glass wrench	E0402-0007		1	WIGEX	14x15mm	1-Jun-09	
B04	02	0008	Tools	Tools Store	Double glass wrench	E0402-0008		1	WIGEX	16x17mm	1-Jun-09	
B04	02	0009	Tools	Tools Store	Double glass wrench	E0402-0009		1	WIGEX	18x19mm	1-Jun-09	
B04	02	0010	Tools	Tools Store	Double glass wrench	E0402-0010		1	WIGEX	20x22mm	1-Jun-09	
B04	02	0011	Tools	Tools Store	Double glass wrench	E0402-0011		1	WIGEX	21x23mm	1-Jun-09	
B04	02	0012	Tools	Tools Store	Double glass wrench	E0402-0012		1	WIGEX	26x28mm	1-Jun-09	
B04	02	0013	Tools	Tools Store	Double glass wrench	E0402-0013		1	WIGEX	27x29mm	1-Jun-09	
B04	02	0014	Tools	Tools Store	Double glass wrench	E0402-0014		1	WIGEX	39x32mm	1-Jun-09	
B04	02	0015	Tools	Tools Store	Double glass wrench	E0402-0015		1	WIGEX	6.7mm	1-Jun-09	
B04	02	0016	Tools	Tools Store	Double glass wrench	E0402-0016		1	WIGEX	8.8mm	1-Jun-09	
B04	02	0017	Tools	Tools Store	Double glass wrench	E0402-0017		1	WIGEX	10x11mm	1-Jun-09	
B04	02	0018	Tools	Tools Store	Double glass wrench	E0402-0018		1	WIGEX	12x13mm	1-Jun-09	
B04	02	0019	Tools	Tools Store	Double glass wrench	E0402-0019		1	WIGEX	14x15mm	1-Jun-09	
B04	02	0020	Tools	Tools Store	Double glass wrench	E0402-0020		1	WIGEX	16x17mm	1-Jun-09	
B04	02	0021	Tools	Tools Store	Double glass wrench	E0402-0021		1	WIGEX	18x19mm	1-Jun-09	
B04	02	0022	Tools	Tools Store	Double glass wrench	E0402-0022		1	WIGEX	20x22mm	1-Jun-09	
B04	02	0023	Tools	Tools Store	Double glass wrench	E0402-0023		1	WIGEX	21x23mm	1-Jun-09	
B04	02	0024	Tools	Tools Store	Double glass wrench	E0402-0024		1	WIGEX	26x28mm	1-Jun-09	
B04	02	0025	Tools	Tools Store	Double glass wrench	E0402-0025		1	WIGEX	27x29mm	1-Jun-09	
B04	02	0026	Tools	Tools Store	Double glass wrench	E0402-0026		1	WIGEX	39x32mm	1-Jun-09	
B04	02	0027	Tools	Tools Store	Double glass wrench	E0402-0027		1		E6x8mm	1-Jun-09	
B04	02	0028	Tools	Tools Store	Double glass wrench	E0402-0028		1		E10x12mm	1-Jun-09	
B04	02	0029	Tools	Tools Store	Double glass wrench	E0402-0029		1		E14x16mm	1-Jun-09	
B04	02	0030	Tools	Tools Store	Double glass wrench	E0402-0030		1		E20x24mm	1-Jun-09	
B04	02	0031	Tools	Tools Store	Spanner	E0402-0031		1		6.7mm	1-Jun-09	
B04	02	0032	Tools	Tools Store	Spanner	E0402-0032		1		6.8mm	1-Jun-09	
B04	02	0033	Tools	Tools Store	Spanner	E0402-0033		1		10x12mm	1-Jun-09	
B04	02	0034	Tools	Tools Store	Spanner	E0402-0034		1		12x13mm	1-Jun-09	
B04	02	0035	Tools	Tools Store	Spanner	E0402-0035		1		14x17mm	1-Jun-09	
B04	02	0036	Tools	Tools Store	Spanner	E0402-0036		1		17x19mm	1-Jun-09	
B04	02	0037	Tools	Tools Store	Spanner	E0402-0037		1		19x21mm	1-Jun-09	
B04	02	0038	Tools	Tools Store	Spanner	E0402-0038		1		22x24mm	1-Jun-09	
B04	02	0039	Tools	Tools Store	Spanner	E0402-0039		1		6.7mm	1-Jun-09	
B04	02	0040	Tools	Tools Store	Spanner	E0402-0040		1		6.8mm	1-Jun-09	

Table 7-7. The Form of Photographic Inventory

The Project for Human Resources Development for Water Supply
02 List of Tools

1 / 30

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
1	Tool set in a aluminum case		2 sets	EO402-0001 EO402-0002	Nov/2008 Nov/2008		*** ***		Tools Store	Detail content in the attached list
2	Double glass wrench		2 set	EO402-0003 ~ EO402-0014		WIGEX		each one of 6x7, 8x8, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 26x28, 27x29, 30x32, mm (total of 12 pcs)	Tools Store	
3			1 set	EO402-0027 EO402-0028 EO402-0029 EO402-0030				each one of E6, E8, E10, E12, E14, E18, E20, E24 (total of 4 pcs)	Tools Store	
4	Spanner set		2 set	EO402-0031 ~ EO402-0038 EO402-0039 ~ EO402-0046				each one of 6x7, 8x8, 10x12, 12x13, 14x17, 17x19, 19x21, 22x24mm (total of 8 pcs)	Tools Store	
5			1 set	EO402-0047 ~ EO402-0058		Sealey, 9K6317		each one of 6x7, 8x8, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x28, 30x32 mm (total of 12 pcs)	Tools Store	

7-4-4. Entry/Exist Sheet

This manual explains how to make an entry/existing sheet. That way the staff can know the quantity and situation of the equipment.

The procedure of registration for this sheet is as follows:

Table 7-8 shows the form of this sheet.

- (1) Open the excel sheet "Entry".
- (2) Enter the EqID.
- (3) Enter the date.
- (4) Enter the number of an increase and decrease.
 - 1) In case of increase (new registration, additional purchase, finish of repair) - enter the quantity in the cell of entry.
 - 2) In case of a decrease (waste, consumable, repair) - enter the quantity in the cell of exit.
- (5) The quantity reentry is shown in the cell of "Qty", sheet "Registration".
- (6) Select the reason of entry/exit in remarks.

Table 7-8. The Form of Entry/Exit Sheet

Equipment Entry Sheet					
No.	Date	EqID	Entry	Exit	Remarks
1	1-Jun-09	B0402-0001	2		
2	1-Jun-09	B0402-0002	2		
3	1-Jun-09	B0402-0003	1		
4	1-Jun-09	B0402-0004	1		
5	1-Jun-09	B0402-0005	1		
6	1-Jun-09	B0402-0006	1		
7	1-Jun-09	B0402-0007	1		
8	1-Jun-09	B0402-0008	1		
9	1-Jun-09	B0402-0009	1		
10	1-Jun-09	B0402-0010	1		
11	1-Jun-09	B0402-0011	1		
12	1-Jun-09	B0402-0012	1		
13	1-Jun-09	B0402-0013	1		
14	1-Jun-09	B0402-0014	1		
15	1-Jun-09	B0402-0015	1		
16	1-Jun-09	B0402-0016	1		
17	1-Jun-09	B0402-0017	1		
18	1-Jun-09	B0402-0018	1		
19	1-Jun-09	B0402-0019	1		
20	1-Jun-09	B0402-0020	1		
21	1-Jun-09	B0402-0021	1		
22	1-Jun-09	B0402-0022	1		
23	1-Jun-09	B0402-0023	1		
24	1-Jun-09	B0402-0024	1		
25	1-Jun-09	B0402-0025	1		
26	1-Jun-09	B0402-0026	1		
27	1-Jun-09	B0402-0027	1		
28	1-Jun-09	B0402-0028	1		
29	1-Jun-09	B0402-0029	1		
30	1-Jun-09	B0402-0030	1		
31	1-Jun-09	B0402-0031	1		
32	1-Jun-09	B0402-0032	1		
33	1-Jun-09	B0402-0033	1		
34	1-Jun-09	B0402-0034	1		
35	1-Jun-09	B0402-0035	1		
36	1-Jun-09	B0402-0036	1		
37	1-Jun-09	B0402-0037	1		
38	1-Jun-09	B0402-0038	1		
39	1-Jun-09	B0402-0039	1		
40	1-Jun-09	B0402-0040	1		
41	1-Jun-09	B0402-0041	1		
42	1-Jun-09	B0402-0042	1		

7-4-5. Rental Sheet

Normally, the staff should record the user name, the renting date and return date.

This work is a heavy burden. If the staff records every usage of equipment, the staff will have to check them for over 1,000 units. This results in this work becoming a heavy burden for the staff. Therefore, the staffs manage the rental record for only a portion of the equipment. This manual considers the rental record as a usage list and operating record.

7-5. THE ARRANGEMENT OF EACH EQUIPMENT

7-5-1. Theory of Arrangement

The course coordinators should easily find the equipment they need. Therefore, the staff must consider and decide the arrangement. Everyone consequently can quickly get the equipment. It is important to review this rule for the staff. The minimum rule is as follows:

(1) Store the same category equipment in the same storage location.

The same category of equipment are similar to each other. Hence, the staff is recommended to store them in the same location. For example, the category “tools” will be stored in the locked tools store in KTC. The staff should indicate the detailed location of equipment by sticking its name label on the shelf. Therefore, the staff should find the necessary equipment smoothly.

(2) Return the equipment to the storage position immediately after use.

Incorrect storage of equipment will occur, if the user doesn't return the equipment. The staff should instruct the users to return the equipment to the storage position immediately after use. That way, the user returns the equipment every time. And then, incorrect storage will be prevented.

(3) Keep a wide space in the storage

The staff has to keep a wide space in the storage area for the new equipment.

When the storage space is small, the staff should try to keep another one. For example, the staff buys a new shelf or tool box. The staff should set the equipment directly on the floor except for large machinery.

As a result, the staff could work efficiently and safely. Photo-16 shows the tool store before cleaning. Photo-17 shows the tool store after cleaning. The user should keep the situation like photo.17 after cleaning.



7-5-2. Arrangement in PWCT Office

Figure 7-5 shows the arrangement in PWCT office.

The storage in PWCT office consists of the Director's room, the PC room, Seminar room1, Seminar room2, the Printing room, the Coordinator's office, the JICA expert's office, the Laboratory, and the PWC hall. Table 7-9 shows the typical equipment in every storage area.

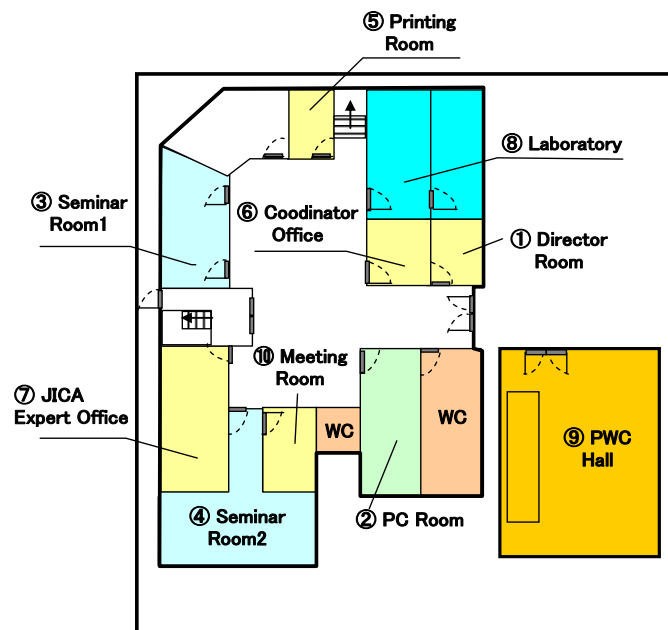


Figure 7-5. The Arrangement in PWCT Office

Table 7-9. The Typical Equipment List in PWCT Office

	Store	Typical equipment
		Office equipment, Reference Book, Water Quality Instrument
①	Director room	PC, TV, Desk, Chair, Couch
②	PC room	PC(GIS), UPS, Desk, Chair
③	seminar room1	Screen, White Board, Desk, Chair
④	seminar room2	Projector, Screen, Desk Chair
⑤	Printing room	Projector, Scanner, GPS, Desk, Chair
⑥	Coordinator office	PC, Desk, Chair
⑦	Expert office	Projector, Digital Camera, Reference Book, Chair
⑧	Laboratory	PC, Desk, Water Quality Instrument
⑨	PWC hall	Screen, Desk, Chair

7-5-3. Arrangement in KTC

Figure 7-6 shows the arrangement in KTC.

The storage in KTC consists of the office, the seminar room, the resting room, the tools store, the storage, the experimental room and the field. Table 7-10 shows the typical equipment in every storage area. The category “office equipment” will be stored in the office, the seminar room and the resting room in KTC. All tools are stored in tool boxes. Therefore, the staff should store the additional equipment in box, as much as.

The coordinator should store major equipment like the forklift or water tank in the storage and experimental room. And, the coordinator should store the pump, GS pipe and the clamps in the locked container.

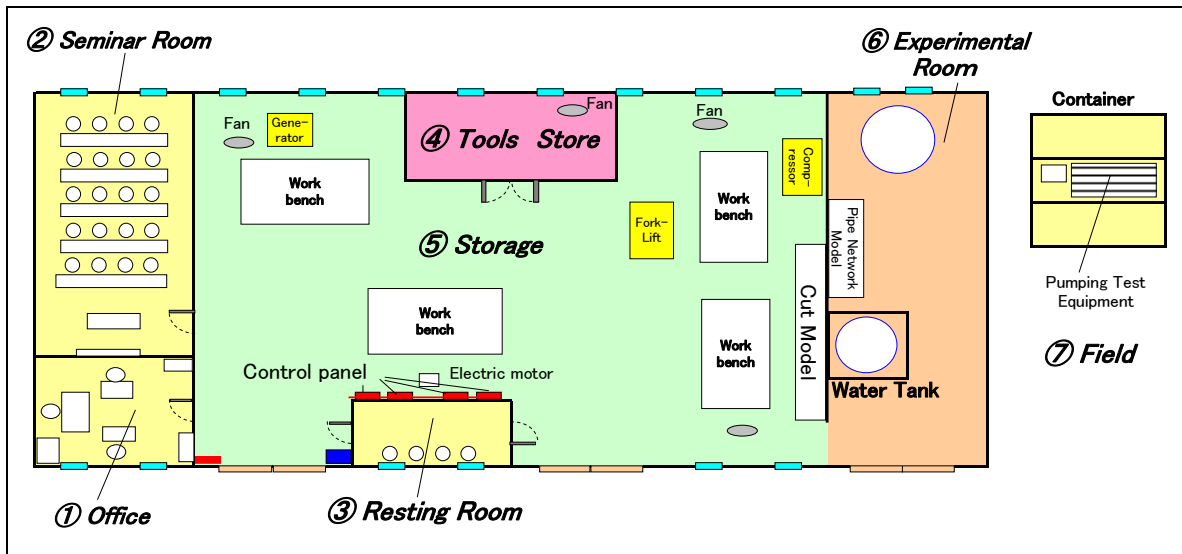


Figure 7-6 The Arrangement in KTC

Table 7-10. The Typical Equipment List in KTC

	Store	Typical equipment
		Large Machine, Tools, Survey and Testing Equipment, Cut Model, Office Equipment
①	Office	Desk, Chair
②	Seminar room	Desk, Chair, TV, White Board
③	Resting room	Desk, Chair, Water Supplier
④	Tools Store	Tools, Survey and Testing Equipment
⑤	Storage	Generator, Fork Lift, Welding Machine, Compressor, Working Bench, Cut Model
⑥	Experimental Room	Pipe Network Model, Water Tank, Pump
⑦	Field	Pumping Test equipment (Pump, GS pipe)

7-6. MAINTENANCE

7-6-1. Maintenance of Equipment

Figure 7-11 shows the list of equipment which the staff have to maintain periodically.

The equipment is accompanied by the manual. The number is 46 items which are expensive. The staff has to periodically maintain the major equipment like air compressor, generator and forklift. The staff should follow the manual of equipment to replace oil or a filter. At first, the staff has to make an operating record. Then, the staff instructs the users to record it on this sheet (example: Table 7-12). After that, the staff should manage and check the record. That way, the staff can get the timing of replacements like spares or oil.

The manager of the laboratory has to periodically maintain the water quality instrument which needs proofreading. At first, the manager has to make a usage check list. And then, they instruct the users to record it on this sheet.

The staff has to periodically check the survey equipment like the pipe line detector, the ultrasonic liquid flow meter, GPS and the borehole camera. This equipment are precision instruments. Therefore, the staff has to make an operating record. And then, they must instruct the users to record it on this sheet. The staff must check the details of these records after use of the equipment as shown in Table 7-11. Additionally, the staff should check visually the equipment. If the equipment isn't be used, the staff has to maintain it every month at least to know recent situation of the equipment.

Table 7-11. The Manual List

Category		Item	Eq#-ID	Manual	Periodic Maintenance	Driving Records
Major Equipment	1	Electric motor	B0501-0302	○		
	2	Submersible pump4kW, 2 inches	B0701-0308	○		
	3	Vertical Motor (4kW, with 100m cable)	B0701-0309	○		
	4	Submersible pump (0.37kw 9m3/h@5mH)	B0401-0310	○		
	5	Pipes threading machine	B0601-0313	○		
	6	Welding machine (SIHIO BX1-500)	B0501-0314	○		
	7	Welding machine (SIHIO BX1-400)	B0501-0315	○		
	8	Air compressor (XAS97DD FB AC LEG)	B0501-0317	○	○	○
	9	Generator Set (FG WILSONP12.5)	B0501-0911	○	○	○
	10	Fork Lift	B0501-0913	○	○	○
Tools	1	Disc Grinder cutting Saw	B0402-0903	○		
	2	Disc Grider polishing Saw	B0402-0904	○		
	3	Electric Air Blower	B0402-0905	○		
Water Quality	1	Turbidimeter	A0804-0483	○		
	2	Colorimeter / Turbidimeter	A0804-0484	○		
	3	Residual chlorine meter	A0804-0485, -0486	○		
	4	EC/pH meter	A0804-0487	○	○	
	5	Multi-parameter water quality meter	A0804-0488	○		
	6	pH/ION/EC/DO Meter	A0804-0489	○	○	
	7	Atomic Absorption Photometer	A0804-0490	○	○	○
	8	Flame Spectrophotometer	A0804-0491, -0492	○	○	○
	9	Digital Burette	A0804-0493, -0496	○		
	10	Air Compressor	A0804-0497	○	○	
	11	Sludge Interface Meter	A0804-0498	○		
	12	Regulator	A0804-0500	○		
	13	Air Compressor	A0804-0501	○	○	
Office Equipment	1	Printer (HP Laser Jet 5200tn)	A0506-0555, -0558	○		
	2	Printer (HP Office Jet Pro. K8600)	A0506-0559, -0560	○		
	3	Plotter (HP Design Jet 500Plus)	A0506-0561	○		
	4	Plotter	A0506-0562	○		
	5	Scanner	A0506-0563	○		
	6	Copy Machine (RICOH aficio MP2000)	A0706-0564	○		
	7	Copy Machine (Rex-Rotary MP2000)	A0506-0565	○		
	8	Projector (Epson EMP-S5)	A0506-0566	○		
	9	Projector (SONY VPL-S5)	B0206-0567, -0568	○		
Testing and Survey Equipment	1	Water leakage detector	B0403-0423, -0426	○		
	2	Insulation Resistance Tester (Mega)	B0403-0428, -0433	○		
	3	Clamp meter	B0403-0434	○		
	4	Earth tester	B0403-0435, -0436	○		
	5	Tester	B0403-0437	○		
	6	Tester	B0403-0438, -0445	○		
	7	Pipe line detector	B0403-0453, -0456	○	○	○
	8	Ultrasonic Liquid flow meter	B0403-0457	○	○	○
	9	GPS	A0503-0466	○	○	○
	10	GPS	A0503-0467, -0481	○	○	○
	11	Borehole camera	B0403-0492	○	○	○

7-6-2. Usage Check List, Operating Recode

The item of the operating report and the usage check list contains the operating time, fuel, the operator name, etc.

Table 7-12 shows the form of the generator operating record.

Table 7-12. The Form of Generator Operating Record

Operating Record													sheet No.		
FG WILSON P12.5 FGWPEPP															
ID	Date	Operating hour				Fuel (L)	Check			Inspect	Cleaning	Drain	Walk-Around Inspection	Remarks	Operator's Signature
		From	To	hour	cumulative hours		Coolant Level	Driven Equipment	Engine Oil Level						
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
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29															
30															

7-6-3. Cleaning

The users and the coordinator have to clean the storage after use (Photo.18). Before training, the coordinator should instruct the trainee to keep it clean. Putting the slogan on the wall is effective to change the mind of the users. Especially in Sudan, PWCT should keep a dust control measure form because dust causes equipment trouble. For example, the staff has to protect the precision instrument by using a plastic cover. Now, the PWCT hire the workers to clean the PWC office and the KTC. The staff should observe their cleaning and check it.



7-6-4. Taking Inventory

At first, the manager prints out the equipment inventory. Then, the organization staff has to check all the equipment (inventory count) every three months. As a result, they can often find the difference between the inventory and the actual number. In this case, the staff should immediately research the cause. And then, the staff has to modify the inventory and restock the equipment.

Mainly, the cause consists of four parts.

- (1) Property loss of equipment
- (2) Missing of equipment
- (3) Stored in the other location
- (4) Mistake in recording

Imperfect management causes trouble like (1), (2) and (3). The staff has to check the number of items in the inventory count. On the same day, the staff should clean and rearrange as result. In the result, the staff can reconfirm and maintain keep the space of storage.

CHAPTER VIII

PWCT LABORATORY EQUIPMENT, MATERIALS AND REAGENTS MANAGEMENT MANUAL

8-1. INTRODUCTION

The present number of total equipment stored in Water Analysis Laboratory of PWCT (Public Water Corporation Training Center) is about several hundred pieces of glass wares, around a couple doses pieces of reagents and around 50 units of equipment. These materials and equipment were procured before the training course from both PWCT and JICA for the training course and routine analysis of water.

Along with the necessary of accuracy in the water analysis report, a proper management of equipment and materials shall be required in the water analysis laboratory. Staffs in the water analysis laboratory can also learn the management of accuracy through the routine management of equipment.

The condition and quantity of equipment and materials shall be always managed properly to analyze water sample every day and to teach trainees “Water Analysis” without lack of materials.

8-1-1. Purposes of Equipment and Materials Management

The purposes of management of equipment and materials are to manage the quantity of materials and to keep the proper condition of equipment.

(1) Managing the quantity of materials

In the water analysis laboratory, there are many types of equipment and materials. Reagents reduce its quantity certainly in every analysis. Glass wares are sometime broken. Filter paper, ethanol, tissues, batteries, etc., such a many consumables are also in the laboratory. These all materials are absolutely necessary for the analysis of water. Therefore the materials shall assure the quantity over the minimum quantity. After ordering materials, the period of acquirement of materials is different according to the type of materials. Therefore, the minimum quantity of materials is different according to each material and the frequency of checking of materials is also different for categories of materials.

(2) Keeping the proper condition of equipment

There are some types of equipment in the laboratory. The types are expensive and sensitive equipment, simple and cheap equipment and maintenance free equipment. To

keep certain accuracy in the laboratory, required maintenance shall be implemented in the proper frequency and in proper way.

(3) Cleanness and proper arrangement

It is very important for staffs in the laboratory to analyze samples in high accuracy. Barricades for the accuracy in analysis are contamination of other materials and dust. All staffs shall always pay attention the cleanness and proper arrangement in the laboratory.

8-2. EQUIPMENT AND MATERIALS MANAGEMENT SYSTEM

8-2-1. Outline of Equipment Management

The main works for equipment and materials consist of four items.

- (1) Database Management
- (2) Checking the number of equipment and materials
- (3) Ordering materials
- (4) Maintenance of equipment

The interval of these jobs depends on the contents of the job and materials. The frequency is daily, every week, three months' work and half years' work. The brief explanations of above works are as follows:

(1) Database Management

All equipment, glassware, reagent and so on are recorded in the database; the name, stored place, quantity, last maintenance day, etc.

If we use this database properly, we can use not only knowing the information of each material and equipment from the database and also use for another purpose. Those are preparing check list for materials, preparing order sheet, estimate the cost of training course. It's very useful for staffs to work efficiently.

(2) Checking the number of equipment and materials

In the database system, there is much information of equipment and material. However, only quantity information is sometime modified, especially concerning the reagents. Staffs shall check the quantity of materials in difference period in accordance with the type of materials. The detail period and the category are stated later.

(3) Ordering materials if it's not enough.

In the counting work, if a material is not enough for the routine work, it shall be ordered soon. The detail procedure of ordering is described later.

(4) Maintenance of equipment

Most of equipment shall be check the condition and sometimes be cleaned and arranged properly. According to the equipment, its period and the method are different. The detail is stated later.

8-2-2. Basic Rule for the Equipment and Materials

- (1) Database of the materials shall be reviewed when an information of materials is changed like broken, lost, wasted, etc.
- (2) Same category of materials and consumables shall be stored in a same or close location basically. If one material is used for chemical and biology, the material shall be only in one location in one room basically.
- (3) Materials used such as beakers and flasks, which is filled with some reagent shall be putted on the places where staffs can find easily, such as on the shelf of desk, in refrigerator and in the oven.
- (4) Some types of equipment shall be record the purpose of use, using period, the name of operation person and so on. The target equipment is Atomic absorption, Flame photometer, Spectrophotometer and other particular equipment which we need to take a record.
- (5) If someone hopes to use materials in Laboratory in outside, staff in Laboratory shall ask the person to submit the application sheet for the rental.

8-3. PWCT LABORATORY EQUIPMENT AND MATERIALS DATABASE SYSTEM

The data base includes the following information.

Name of equipment and materials, the stored location, the quantity, the specification, the picture, the purchase day, the remarks, and so on are in the data base system.

Staffs can refer the information and also use for many purposes. It is printing the stock confirmation sheet, printing the order sheet, confirmation of next maintenance day etc.

In this clause, the composition of database is introduced.

8-3-1. Composition of Database System

In the database system, many types of sheet are used. The name of sheet and the purpose are as follows.

Table 8-1. Name of sheet and purpose of use

No	Name of sheet	Purpose of sheet
1	MainData	Almost all information is recorded in this sheet. This sheet is used for only inputting data.
2	forPrint(Materials)	From the MainData sheet, material information is collected and arranged for print paper.
2	forPrint(Location)	From the MainData sheet, location information is collected and arranged for print paper.
3	Form(Confirmation)	In material quantity check, this sheet is used after printing.
4	Form(Order)	In material ordering, this sheet is used after printing.
5	Form(Maintenance)	In ordering service companies' maintenance, this sheet is used for ordering after printing.
6	ID	Some additional information is recorded. Normally these information shall not be changed and also not used.
7	Type-A	After check the quantity of materials (Type-A), the information should be inputted into this sheet.
8	Type-B	After check the quantity of materials (Type-A), the information should be inputted into this sheet.
9	Type-C	After check the quantity of materials (Type-C), the information should be inputted into this sheet.
10	Type-D	After check the quantity of materials (Type-D), the information should be inputted into this sheet.
11	Type-E	After check the quantity of materials (Type-E), the information should be inputted into this sheet.

This database system uses “vlookup” function of Excel application. Therefore, if the major modification is required, a person who understands the “vlookup” shall modify the system.

8-4. REGULAR CONFIRMATION OF EQUIPMENT AND MATERIALS ABOUT THE CONDITION AND QUANTITY

8-4-1 Introduction of Category of Equipment and Materials

Based on the categories of the materials, its quantity and condition shall be confirmed under a special format in every particular period and the data base shall be also modified. If some quantity of material is not enough for the particular quantity, the materials shall be ordered by using an original format.

The categories are arranged in the following table and the explanation is also as follows:

Table 8-2. Category of Equipment and Materials

Category	Confirmation Frequency	Target	Day and Time
All Type	After training course	Material and equipment which are used in the training course	Soon after training course
Type A	Every day	Terrible high consumable reagents, soap, tissues	14:30-15:00
Type B	Every week	Some type of Gas, middle consumable reagents	On Thursday 12:00-14:30
Type C	Every month	Low consumable reagents	On the 25 th day 12:00-14:30
Type D	Every three months	Glass tools , quite low consumable reagents	On the 10 th day 12:00-14:30
Type E	Every half year	pH meter , multi water analysis tools	On the 10 th day 9:00-12:00

- (1) After the training course, all equipment and materials used in the training course shall be checked by assistants. If some materials were broken, stolen or lost, the person in charge shall report the manager the condition of the materials.
- (2) Concerning the Type –A materials, the quantity shall be checked from 14:30 to 15:00 every day. If the volume is under the border line, the person in charge shall fill the necessary information in the order sheet and submit to the boss for order.
- (3) Concerning the Type –B materials, the quantity shall be checked from 14:00 to 15:00 on Thursday every week. If the volume is under the border line, the person in charge shall fill the necessary information in the order sheet and submit to the boss for order. If the Thursday is holiday, the confirmation and order shall be on Wednesday of the week.
- (4) Concerning the Type –C materials, the quantity shall be checked from 12:00 to 15:00 on 25th day of every month. If the volume is under the border line, the person in charge shall fill the necessary information in the order sheet and submit for order. If the 25th day is the holiday, the confirmation and order works shall be conducted on the day before the holiday.
- (5) Concerning the Type –D materials, the quantity shall be checked from 12:00 to 15:00 on 10th day of February, May, August and November. If the volume is under the border line, the person in charge shall fill the necessary information in the order sheet and submit for order. If the 10th day is the holiday, the confirmation and order works

shall be conducted on the day before the holiday.

- (6) Concerning the Type –E materials, the quantity shall be checked from 9:00 to 12:00 on 10th day of February and August. If the volume is under the border line, the person in charge shall fill the necessary information in the order sheet and submit for order. If the 10th day is the holiday, the confirmation and order works shall be conducted on the day before the holiday.

8-4-2. Stock Confirmation Sheet

When staffs check the quantity of equipment and materials, a stock confirmation sheet shall be used. The stock confirmation sheet can be printed out by using the data base system. The procedure of printing out is as follows:

- (1) After opening the database file (PWCL_QtyDatabase.xlsx), select a tab “Form (Confirmation)”.
- (2) After selecting tab “Form (Confirmation)”, input the type of category in the right upper in the sheet and press “F9”

Public Water Corporation Water Analysis Laboratory

Date: 11/2011/١١/٢٠١١

Type: A

Stock Confirmation Sheet



No.	Name	Specification	Order Line	Last Q	Present Q	Order

Figure 8-1. Stock Confirmation Sheet

- (3) After inputting the type and press F9, print it out

8-5. MAINTENANCE OF MATERIALS

- 1. In case Materials needs regular maintenance, it shall be specified to the database that the frequency, the last maintenance day and the treatment content.
- 2. The type of material which needs maintenance shall be categorized “Normal” and “Special”. The “Normal” materials can be maintained by staffs in Laboratory. The “Special”

materials shall be checked and maintained by professional company.

3. For the “Special” material, the application of maintenance shall be filled and submitted to the person in charge (Director of PWCT) before one and half month.

The special type of equipment is at present as follows:

- (1) Atomic Absorption
- (2) Flame photometer

8-6. STAFF BELONG TO THE LABORATORY AND THEIR ROLES

Staff and their work content, which are specified in this manual, are stated below.

No	Staff	Content of the work
1	PWC Director	In case PWCT director and deputy director are absent, he shall handle some types of application,
2	PWCT Director	PWCT director shall confirm the report about applications from PWCT deputy director. In case of absent of deputy director, PWCT director shall handle the application directory instead of deputy director.
3	PWCT Deputy Director	PWCT deputy director shall receive an application. After confirming the content, he shall report to PWCT director.
4	PWC LAB Manager	After confirming the content of application, PWC lab manager shall apply to the PWCT deputy manager.
5	PWC LAB Analyst	PWCT lab analysts shall confirm the stock regularly according to the manual. After the confirmation, the person shall modify the database and prepare the application documents
6	PWC LAB Assistant	PWCT lab assistants shall confirm the stock regularly according to the manual. After the confirmation, the person shall modify the database and prepare the application documents

Attached Documents

Chapter VII Equipment Management Manual

1. Equipment List

- 1.1. Inventory of Equipment in PWCT
- 1.2. Equipment Entry Sheet
- 1.3. Photographic Inventory

2. Sheet Form

- 2.1. Driving Record for The Fork Lift
- 2.2. Operating Record for The Compressor
- 2.3. Operating Record for The Generator
- 2.4. Usage Check List for The Borehole Camera
- 2.5. Usage Check List for The Ultrasonic Liquid Flow Meter
- 2.6. Usage Check List for The Pipe Line Detector
- 2.7. Usage Check List for Testers
- 2.8. Usage Check List for The Water Leakage Detector
- 2.9. Usage Check List for The GPS
- 2.10. Usage Check List for Water Quality Equipment
- 2.11. Usage Check List for The Atomic Absorption
- 2.12. Usage Check List for The Flame Photometer

1.1. Inventory of Equipment in PWCT

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0001	Tools	Tools Store	Tool set in a aluminium case	B0402-0001		2			1-Jun-09	
B04	02	0002	Tools	Tools Store	Tool set in a aluminium case	B0402-0002		2			1-Jun-09	
B04	02	0003	Tools	Tools Store	Double glass wrench	B0402-0003		1	VIGEX	6x7mm	1-Jun-09	
B04	02	0004	Tools	Tools Store	Double glass wrench	B0402-0004		1	VIGEX	8x8mm	1-Jun-09	
B04	02	0005	Tools	Tools Store	Double glass wrench	B0402-0005		1	VIGEX	10x11mm	1-Jun-09	
B04	02	0006	Tools	Tools Store	Double glass wrench	B0402-0006		1	VIGEX	12x13mm	1-Jun-09	
B04	02	0007	Tools	Tools Store	Double glass wrench	B0402-0007		1	VIGEX	14x15mm	1-Jun-09	
B04	02	0008	Tools	Tools Store	Double glass wrench	B0402-0008		1	VIGEX	16x17mm	1-Jun-09	
B04	02	0009	Tools	Tools Store	Double glass wrench	B0402-0009		1	VIGEX	18x19mm	1-Jun-09	
B04	02	0010	Tools	Tools Store	Double glass wrench	B0402-0010		1	VIGEX	20x22mm	1-Jun-09	
B04	02	0011	Tools	Tools Store	Double glass wrench	B0402-0011		1	VIGEX	21x23mm	1-Jun-09	
B04	02	0012	Tools	Tools Store	Double glass wrench	B0402-0012		1	VIGEX	26x28mm	1-Jun-09	
B04	02	0013	Tools	Tools Store	Double glass wrench	B0402-0013		1	VIGEX	27x29mm	1-Jun-09	
B04	02	0014	Tools	Tools Store	Double glass wrench	B0402-0014		1	VIGEX	38x32mm	1-Jun-09	
B04	02	0015	Tools	Tools Store	Double glass wrench	B0402-0015		1	VIGEX	6x7mm	1-Jun-09	
B04	02	0016	Tools	Tools Store	Double glass wrench	B0402-0016		1	VIGEX	8x9mm	1-Jun-09	
B04	02	0017	Tools	Tools Store	Double glass wrench	B0402-0017		1	VIGEX	10x11mm	1-Jun-09	
B04	02	0018	Tools	Tools Store	Double glass wrench	B0402-0018		1	VIGEX	12x13mm	1-Jun-09	
B04	02	0019	Tools	Tools Store	Double glass wrench	B0402-0019		1	VIGEX	14x15mm	1-Jun-09	
B04	02	0020	Tools	Tools Store	Double glass wrench	B0402-0020		1	VIGEX	16x17mm	1-Jun-09	
B04	02	0021	Tools	Tools Store	Double glass wrench	B0402-0021		1	VIGEX	18x19mm	1-Jun-09	
B04	02	0022	Tools	Tools Store	Double glass wrench	B0402-0022		1	VIGEX	20x22mm	1-Jun-09	
B04	02	0023	Tools	Tools Store	Double glass wrench	B0402-0023		1	VIGEX	21x23mm	1-Jun-09	
B04	02	0024	Tools	Tools Store	Double glass wrench	B0402-0024		1	VIGEX	26x28mm	1-Jun-09	
B04	02	0025	Tools	Tools Store	Double glass wrench	B0402-0025		1	VIGEX	27x29mm	1-Jun-09	
B04	02	0026	Tools	Tools Store	Double glass wrench	B0402-0026		1	VIGEX	39x32mm	1-Jun-09	
B04	02	0027	Tools	Tools Store	Double glass wrench	B0402-0027		1		E6xE8mm	1-Jun-09	
B04	02	0028	Tools	Tools Store	Double glass wrench	B0402-0028		1		E10xE12mm	1-Jun-09	
B04	02	0029	Tools	Tools Store	Double glass wrench	B0402-0029		1		E14xE18mm	1-Jun-09	
B04	02	0030	Tools	Tools Store	Double glass wrench	B0402-0030		1		E20xE24mm	1-Jun-09	
B04	02	0031	Tools	Tools Store	Spanner	B0402-0031		1		6x7mm	1-Jun-09	
B04	02	0032	Tools	Tools Store	Spanner	B0402-0032		1		6x8mm	1-Jun-09	
B04	02	0033	Tools	Tools Store	Spanner	B0402-0033		1		10x12mm	1-Jun-09	
B04	02	0034	Tools	Tools Store	Spanner	B0402-0034		1		12x13mm	1-Jun-09	
B04	02	0035	Tools	Tools Store	Spanner	B0402-0035		1		14x17mm	1-Jun-09	
B04	02	0036	Tools	Tools Store	Spanner	B0402-0036		1		17x19mm	1-Jun-09	
B04	02	0037	Tools	Tools Store	Spanner	B0402-0037		1		19x21mm	1-Jun-09	
B04	02	0038	Tools	Tools Store	Spanner	B0402-0038		1		22x24mm	1-Jun-09	
B04	02	0039	Tools	Tools Store	Spanner	B0402-0039		1		6x7mm	1-Jun-09	
B04	02	0040	Tools	Tools Store	Spanner	B0402-0040		1		6x8mm	1-Jun-09	
B04	02	0041	Tools	Tools Store	Spanner	B0402-0041		1		10x12mm	1-Jun-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0042	Tools	Tools Store	Spanner	B0402-0042		1		12x13mm	1-Jun-09	
B04	02	0043	Tools	Tools Store	Spanner	B0402-0043		1		14x17mm	1-Jun-09	
B04	02	0044	Tools	Tools Store	Spanner	B0402-0044		1		17x19mm	1-Jun-09	
B04	02	0045	Tools	Tools Store	Spanner	B0402-0045		1		19x21mm	1-Jun-09	
B04	02	0046	Tools	Tools Store	Spanner	B0402-0046		1		22x24mm	1-Jun-09	
B04	02	0047	Tools	Tools Store	Spanner	B0402-0047		1	Sealey AK6317	6x7	1-Jun-09	
B04	02	0048	Tools	Tools Store	Spanner	B0402-0048		1	Sealey AK6317	8x9	1-Jun-09	
B04	02	0049	Tools	Tools Store	Spanner	B0402-0049		1	Sealey AK6317	10x11	1-Jun-09	
B04	02	0050	Tools	Tools Store	Spanner	B0402-0050		1	Sealey AK6317	12x13	1-Jun-09	
B04	02	0051	Tools	Tools Store	Spanner	B0402-0051		1	Sealey AK6317	14x15	1-Jun-09	
B04	02	0052	Tools	Tools Store	Spanner	B0402-0052		1	Sealey AK6317	16x17	1-Jun-09	
B04	02	0053	Tools	Tools Store	Spanner	B0402-0053		1	Sealey AK6317	18x19	1-Jun-09	
B04	02	0054	Tools	Tools Store	Spanner	B0402-0054		1	Sealey AK6317	20x22	1-Jun-09	
B04	02	0055	Tools	Tools Store	Spanner	B0402-0055		1	Sealey AK6317	21x23	1-Jun-09	
B04	02	0056	Tools	Tools Store	Spanner	B0402-0056		1	Sealey AK6317	24x26	1-Jun-09	
B04	02	0057	Tools	Tools Store	Spanner	B0402-0057		1	Sealey AK6317	24x26	1-Jun-09	
B04	02	0058	Tools	Tools Store	Spanner	B0402-0058		1	Sealey AK6317	30x32	1-Jun-09	
B04	02	0059	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0059		1	Sealey AK6314	6	1-Jun-09	
B04	02	0060	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0060		1	Sealey AK6314	7	1-Jun-09	
B04	02	0061	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0061		1	Sealey AK6314	8	1-Jun-09	
B04	02	0062	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0062		1	Sealey AK6314	9	1-Jun-09	
B04	02	0063	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0063		1	Sealey AK6314	10	1-Jun-09	
B04	02	0064	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0064		1	Sealey AK6314	11	1-Jun-09	
B04	02	0065	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0065		1	Sealey AK6314	12	1-Jun-09	
B04	02	0066	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0066		1	Sealey AK6314	13	1-Jun-09	
B04	02	0067	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0067		1	Sealey AK6314	14	1-Jun-09	
B04	02	0068	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0068		1	Sealey AK6314	15	1-Jun-09	
B04	02	0069	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0069		1	Sealey AK6314	16	1-Jun-09	
B04	02	0070	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0070		1	Sealey AK6314	17	1-Jun-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0071	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0071		1	Sealey AK6314	18	1-Jun-09	
B04	02	0072	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0072		1	Sealey AK6314	19	1-Jun-09	
B04	02	0073	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0073		1		16mm	1-Jun-09	
B04	02	0074	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0074		1		16mm	1-Jun-09	
B04	02	0075	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0075		1		10mm	1-Jun-09	
B04	02	0076	Tools	Tools Store	Single glass wrench (combination wrench)	B0402-0076				10mm	1-Jun-09	
B04	02	0077	Tools	Tools Store	6 angle socket	B0402-0077		1	Sealey AK2693	8	1-Jun-09	
B04	02	0078	Tools	Tools Store	6 angle socket	B0402-0078		1	Sealey AK2693	9	1-Jun-09	
B04	02	0079	Tools	Tools Store	6 angle socket	B0402-0079		1	Sealey AK2693	10	1-Jun-09	
B04	02	0080	Tools	Tools Store	6 angle socket	B0402-0080		1	Sealey AK2693	11	1-Jun-09	
B04	02	0081	Tools	Tools Store	6 angle socket	B0402-0081		1	Sealey AK2693	12	1-Jun-09	
B04	02	0082	Tools	Tools Store	6 angle socket	B0402-0082		1	Sealey AK2693	13	1-Jun-09	
B04	02	0083	Tools	Tools Store	6 angle socket	B0402-0083		1	Sealey AK2693	14	1-Jun-09	
B04	02	0084	Tools	Tools Store	6 angle socket	B0402-0084		1	Sealey AK2693	15	1-Jun-09	
B04	02	0085	Tools	Tools Store	6 angle socket	B0402-0085		1	Sealey AK2693	16	1-Jun-09	
B04	02	0086	Tools	Tools Store	6 angle socket	B0402-0086		1	Sealey AK2693	17	1-Jun-09	
B04	02	0087	Tools	Tools Store	6 angle socket	B0402-0087		1	Sealey AK2693	18	1-Jun-09	
B04	02	0088	Tools	Tools Store	6 angle socket	B0402-0088		1	Sealey AK2693	19	1-Jun-09	
B04	02	0089	Tools	Tools Store	6 angle socket	B0402-0089		1		16mm	1-Jun-09	
B04	02	0090	Tools	Tools Store	6 angle socket	B0402-0090		1		16mm	1-Jun-09	
B04	02	0091	Tools	Tools Store	12 angle socket	B0402-0091		1		8	1-Jun-09	
B04	02	0092	Tools	Tools Store	12 angle socket	B0402-0092		1		9	1-Jun-09	
B04	02	0093	Tools	Tools Store	12 angle socket	B0402-0093		1		10	1-Jun-09	
B04	02	0094	Tools	Tools Store	12 angle socket	B0402-0094		1		11	1-Jun-09	
B04	02	0095	Tools	Tools Store	12 angle socket	B0402-0095		1		12	1-Jun-09	
B04	02	0096	Tools	Tools Store	12 angle socket	B0402-0096		1		13	1-Jun-09	
B04	02	0097	Tools	Tools Store	12 angle socket	B0402-0097		1		14	1-Jun-09	
B04	02	0098	Tools	Tools Store	12 angle socket	B0402-0098		1		15	1-Jun-09	
B04	02	0099	Tools	Tools Store	12 angle socket	B0402-0099		1		16	1-Jun-09	
B04	02	0100	Tools	Tools Store	12 angle socket	B0402-0100		1		17	1-Jun-09	
B04	02	0101	Tools	Tools Store	12 angle socket	B0402-0101		1		18	1-Jun-09	
B04	02	0102	Tools	Tools Store	12 angle socket	B0402-0102		1		19	1-Jun-09	
B04	02	0103	Tools	Tools Store	12 angle socket	B0402-0103		1		19	1-Jun-09	
B04	02	0104	Tools	Tools Store	12 angle socket	B0402-0104		1		21	1-Jun-09	
B04	02	0105	Tools	Tools Store	12 angle socket	B0402-0105		1		22	1-Jun-09	

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StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0106	Tools	Tools Store	12 angle socket	B0402-0106		1		24	1-Jun-09	
B04	02	0107	Tools	Tools Store	12 angle socket	B0402-0107		1		27	1-Jun-09	
B04	02	0108	Tools	Tools Store	12 angle socket	B0402-0108		1		30	1-Jun-09	
B04	02	0109	Tools	Tools Store	12 angle socket	B0402-0109		1		32	1-Jun-09	
B04	02	0110	Tools	Tools Store	Ratchet Wrench	B0402-0110		1	Sealey AK5762	195mm	1-Jun-09	
B04	02	0111	Tools	Tools Store	Ratchet Wrench	B0402-0111		1		1/2" sq 270mm	1-Jun-09	
B04	02	0112	Tools	Tools Store	Ratchet Wrench	B0402-0112		1		1/2" sq 270mm	1-Jun-09	
B04	02	0113	Tools	Tools Store	Torque wrench	B0402-0113		1		Dial type: 1/2" 2.8-29.7KGS	1-Jun-09	
B04	02	0114	Tools	Tools Store	Torque wrench	B0402-0114		1		Dial type: 1/2" 2.8-29.7KGS	1-Jun-09	
B04	02	0115	Tools	Tools Store	Torque wrench	B0402-0115		1	Sealey AK623	3/8" Sq. 275mm	1-Jun-09	
B04	02	0116	Tools	Tools Store	Driver steering wheel	B0402-0116		1	Sealey AK6338	3/8" Sq. 250mm	1-Jun-09	
B04	02	0117	Tools	Tools Store	Extension bar	B0402-0117		1		3/8" Sq. 75mm	1-Jun-09	
B04	02	0118	Tools	Tools Store	Extension bar	B0402-0118		1		3/8" Sq. 150mm	1-Jun-09	
B04	02	0119	Tools	Tools Store	Extension bar	B0402-0119		1		3/8" Sq. 225mm	1-Jun-09	
B04	02	0120	Tools	Tools Store	Universal joint	B0402-0120		1	Sealey S38UU	3/8" Sq	1-Jun-09	
B04	02	0121	Tools	Tools Store	Nut spinner steering wheel	B0402-0121		1		Length 380mm	1-Jun-09	
B04	02	0122	Tools	Tools Store	Nut spinner steering wheel	B0402-0122		1		Length 380mm	1-Jun-09	
B04	02	0123	Tools	Tools Store	T-handle nut spinner	B0402-0123		1	Sealey AK5812	6	1-Jun-09	
B04	02	0124	Tools	Tools Store	T-handle nut spinner	B0402-0124		1		9	1-Jun-09	
B04	02	0125	Tools	Tools Store	T-handle nut spinner	B0402-0125		1		10	1-Jun-09	
B04	02	0126	Tools	Tools Store	T-handle nut spinner	B0402-0126		1		11	1-Jun-09	
B04	02	0127	Tools	Tools Store	T-handle nut spinner	B0402-0127		1		12	1-Jun-09	
B04	02	0128	Tools	Tools Store	T-handle nut spinner	B0402-0128		1		13	1-Jun-09	
B04	02	0129	Tools	Tools Store	T-handle nut spinner	B0402-0129		1		14	1-Jun-09	
B04	02	0130	Tools	Tools Store	T-handle nut spinner	B0402-0130		1		17	1-Jun-09	
B04	02	0131	Tools	Tools Store	T-handle nut spinner	B0402-0131		1		19	1-Jun-09	
B04	02	0132	Tools	Tools Store	Cross rim wrench	B0402-0132		1		4-way 14" 17" 19" 21mm	1-Jun-09	
B04	02	0133	Tools	Tools Store	Cross rim wrench	B0402-0133		1		4-way 17, 19, 21, 23 mm	1-Jun-09	
B04	02	0134	Tools	Tools Store	Cross rim wrench	B0402-0134		1		4-way 17, 19, 21, 23 mm	1-Jun-09	
B04	02	0135	Tools	Tools Store	Model T wrench	B0402-0135		1		480mm. with 10mm flexi bit holder	1-Jun-09	
B04	02	0136	Tools	Tools Store	Power driver	B0402-0136		1		(+) 1x75	1-Jun-09	
B04	02	0137	Tools	Tools Store	Power driver	B0402-0137		1		(+) 2x100	1-Jun-09	
B04	02	0138	Tools	Tools Store	Power driver	B0402-0138		1		(+) 2x150	1-Jun-09	
B04	02	0139	Tools	Tools Store	Power driver	B0402-0139		1		(-) 6x100	1-Jun-09	
B04	02	0140	Tools	Tools Store	Power driver	B0402-0140		1		(-) 6x125	1-Jun-09	
B04	02	0141	Tools	Tools Store	Power driver	B0402-0141		1		(-) 6x150	1-Jun-09	
B04	02	0142	Tools	Tools Store	Power driver	B0402-0142		1		(-) 8x200	1-Jun-09	
B04	02	0143	Tools	Tools Store	Power driver	B0402-0143		1		(+) 1x75	1-Jun-09	
B04	02	0144	Tools	Tools Store	Power driver	B0402-0144		1		(+) 2x100	1-Jun-09	
B04	02	0145	Tools	Tools Store	Power driver	B0402-0145		1		(+) 2x150	1-Jun-09	

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0146	Tools	Tools Store	Power driver	B0402-0146		1		(-) 6x100	1-Jun-09	
B04	02	0147	Tools	Tools Store	Power driver	B0402-0147		1		(-) 6x125	1-Jun-09	
B04	02	0148	Tools	Tools Store	Power driver	B0402-0148		1		(-) 6x150	1-Jun-09	
B04	02	0149	Tools	Tools Store	Power driver	B0402-0149		1		(-) 8x200	1-Jun-09	
B04	02	0150	Tools	Tools Store	Power driver	B0402-0150		1		slotted 3x75mm	1-Jun-09	
B04	02	0151	Tools	Tools Store	Power driver	B0402-0151		1		slotted 4x80mm	1-Jun-09	
B04	02	0152	Tools	Tools Store	Power driver	B0402-0152		1		slotted 5.5x125mm	1-Jun-09	
B04	02	0153	Tools	Tools Store	Power driver	B0402-0153		1		slotted 6.5x150mm	1-Jun-09	
B04	02	0154	Tools	Tools Store	Power driver	B0402-0154		1		slotted 6.5x38mm	1-Jun-09	
B04	02	0155	Tools	Tools Store	Power driver	B0402-0155		1		Pozi: #8x75	1-Jun-09	
B04	02	0156	Tools	Tools Store	Power driver	B0402-0156		1		Pozi:#1x80	1-Jun-09	
B04	02	0157	Tools	Tools Store	Power driver	B0402-0157		1		Pozi:#2x100	1-Jun-09	
B04	02	0158	Tools	Tools Store	Stubby driver	B0402-0158		1		(+) 50mm	1-Jun-09	
B04	02	0159	Tools	Tools Store	Stubby driver	B0402-0159		1		(-) 50mm	1-Jun-09	
B04	02	0160	Tools	Tools Store	Stubby driver	B0402-0160		1		(+) 50mm	1-Jun-09	
B04	02	0161	Tools	Tools Store	Stubby driver	B0402-0161		1		(-) 50mm	1-Jun-09	
B04	02	0162	Tools	Tools Store	Stubby driver	B0402-0162		1		slotted 6.5x38mm	1-Jun-09	
B04	02	0163	Tools	Tools Store	Stubby driver	B0402-0163		1		Phillips #2x38mm	1-Jun-09	
B04	02	0164	Tools	Tools Store	Insulated driver	B0402-0164		1	9824/9820	9824-01	1-Jun-09	
B04	02	0165	Tools	Tools Store	Insulated driver	B0402-0165		1	9824/9820	9824-02	1-Jun-09	
B04	02	0166	Tools	Tools Store	Insulated driver	B0402-0166		1	9824/9820	9824-03	1-Jun-09	
B04	02	0167	Tools	Tools Store	Insulated driver	B0402-0167		1	9824/9820	9820-2.8	1-Jun-09	
B04	02	0168	Tools	Tools Store	Insulated driver	B0402-0168		1	9824/9820	9820-4.0	1-Jun-09	
B04	02	0169	Tools	Tools Store	Insulated driver	B0402-0169		1	9824/9820	9820-5.5	1-Jun-09	
B04	02	0170	Tools	Tools Store	Precision driver	B0402-0170		1	Sealey AK97302	Phillips #60x50	1-Jun-09	
B04	02	0171	Tools	Tools Store	Precision driver	B0402-0171		1	Sealey AK97302	Phillips #60x50	1-Jun-09	
B04	02	0172	Tools	Tools Store	Precision driver	B0402-0172		1	Sealey AK97302	Phillips: #1x50mm	1-Jun-09	
B04	02	0173	Tools	Tools Store	Precision driver	B0402-0173		1	Sealey AK97302	Slotted 1.5x50	1-Jun-09	
B04	02	0174	Tools	Tools Store	Precision driver	B0402-0174		1	Sealey AK97302	Slotted: 2x50	1-Jun-09	
B04	02	0175	Tools	Tools Store	Precision driver	B0402-0175		1	Sealey AK97302	Slotted: 3x50mm	1-Jun-09	
B04	02	0176	Tools	Tools Store	Hexagon L-form wrench	B0402-0176		1	Sealey AK7140	1.5	1-Jun-09	
B04	02	0177	Tools	Tools Store	Hexagon L-form wrench	B0402-0177		1	Sealey AK7140	2	1-Jun-09	
B04	02	0178	Tools	Tools Store	Hexagon L-form wrench	B0402-0178		1	Sealey AK7140	2.5	1-Jun-09	
B04	02	0179	Tools	Tools Store	Hexagon L-form wrench	B0402-0179		1	Sealey AK7140	3	1-Jun-09	
B04	02	0180	Tools	Tools Store	Hexagon L-form wrench	B0402-0180		1	Sealey AK7140	4	1-Jun-09	
B04	02	0181	Tools	Tools Store	Hexagon L-form wrench	B0402-0181		1	Sealey AK7140	5	1-Jun-09	
B04	02	0182	Tools	Tools Store	Hexagon L-form wrench	B0402-0182		1	Sealey AK7140	6	1-Jun-09	
B04	02	0183	Tools	Tools Store	Hexagon L-form wrench	B0402-0183		1	Sealey AK7140	8	1-Jun-09	
B04	02	0184	Tools	Tools Store	Hexagon L-form wrench	B0402-0184		1	Sealey AK7140	10	1-Jun-09	
B04	02	0185	Tools	Tools Store	Water pump plier	B0402-0185		1	Sealey AK8531	250mm, self adjusting	1-Jun-09	
B04	02	0186	Tools	Tools Store	Plier	B0402-0186		1		8" linesman plier	1-Jun-09	

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0187	Tools	Tools Store	Plier	B0402-0187		1		8" linesman plier	1-Jun-09	
B04	02	0188	Tools	Tools Store	Plier	B0402-0188		1	Sealey AK8504	combination plier 205mm	1-Jun-09	
B04	02	0189	Tools	Tools Store	Snap ring plier	B0402-0189		1	Sealey AK8511	round nose plier 175mm	1-Jun-09	
B04	02	0190	Tools	Tools Store	Radio plier	B0402-0190		1	Sealey AK8509	flat nose, 170mm	1-Jun-09	
B04	02	0191	Tools	Tools Store	Nipper	B0402-0191		1	Sealey AK8516	side cutters, 180mm	1-Jun-09	
B04	02	0192	Tools	Tools Store	Nipper	B0402-0192		1	Sealey AK8516	side cutters, 180mm	1-Jun-09	
B04	02	0193	Tools	Tools Store	Crimp plier	B0402-0193		1	Sealey AK3857	220mm Insulated terminal: 0.5-1.0 1.5-2.5, 4-6mm ² uninsulated terminal: 1.5 2.5, 6, 10 mm ² include exchangeable jaw terminal	1-Jun-09	
B04	02	0194	Tools	Tools Store	Electric wires ripper	B0402-0194		1	TS-3000B	Diameter 1.0, 1.6, 2.0, 2.6, 3.2mm	1-Jun-09	
B04	02	0195	Tools	Tools Store	Electric wires ripper	B0402-0195		1	TS-3000B	Diameter 1.0, 1.6, 2.0, 2.6, 3.2mm	1-Jun-09	
B04	02	0196	Tools	Tools Store	Electric wires ripper	B0402-0196		1	Sealey AK2255	0.2-6mm ² , 200mm	1-Jun-09	
B04	02	0197	Tools	Tools Store	Wire cutter	B0402-0197		1	Sealey AK503	φ5mm, 190mm	1-Jun-09	
B04	02	0198	Tools	Tools Store	Electric soldering iron	B0402-0198		1	Sealey SD100	100W, 230V	1-Jun-09	
B04	02	0199	Tools	Tools Store	Adjustable wrench	B0402-0199		1		150mm	1-Jun-09	
B04	02	0200	Tools	Tools Store	Adjustable wrench	B0402-0200		1		150mm	1-Jun-09	
B04	02	0201	Tools	Tools Store	Adjustable wrench	B0402-0201		1	Sealey AK9451	150mm	1-Jun-09	
B04	02	0202	Tools	Tools Store	Adjustable wrench	B0402-0202		1	Sealey AK9452	200mm	1-Jun-09	
B04	02	0203	Tools	Tools Store	Oil filter wrench	B0402-0203		1		stell type	1-Jun-09	
B04	02	0204	Tools	Tools Store	Oil filter wrench	B0402-0204		1		stell type	1-Jun-09	
B04	02	0205	Tools	Tools Store	Oil filter wrench	B0402-0205		1		leather type	1-Jun-09	
B04	02	0206	Tools	Tools Store	Oil filter wrench	B0402-0206		1		leather type	1-Jun-09	
B04	02	0207	Tools	Tools Store	Oil filter wrench	B0402-0207		1		φ65-100mm	1-Jun-09	
B04	02	0208	Tools	Tools Store	Oil filter wrench	B0402-0208		1		φ112-155mm	1-Jun-09	
B04	02	0209	Tools	Tools Store	Chain wrench	B0402-0209		1	VIRAX	60-114mm steel	1-Jun-09	
B04	02	0210	Tools	Tools Store	Chain wrench	B0402-0210		1	VIRAX	60-114mm steel	1-Jun-09	
B04	02	0211	Tools	Tools Store	Chain wrench	B0402-0211		1		12 inches (90-140mm) steel	1-Jun-09	
B04	02	0212	Tools	Tools Store	Chain wrench	B0402-0212		1		12 inches (90-140mm) steel	1-Jun-09	
B04	02	0213	Tools	Tools Store	Chain wrench	B0402-0213		1		12 inches (90-140mm) steel	1-Jun-09	
B04	02	0214	Tools	Tools Store	Chain wrench	B0402-0214		1		12 inches (90-140mm) steel	1-Jun-09	
B04	02	0215	Tools	Tools Store	Metallic file	B0402-0215		1	Sealey AK572	Imperial and metric, Blade dimension 75x13mm (total of 3 pcs)	1-Jun-09	
B04	02	0216	Tools	Tools Store	Metallic file	B0402-0216		1	Sealey AK572	Imperial and metric, Blade dimension 75x13mm (total of 3 pcs)	1-Jun-09	

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StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0217	Tools	Tools Store	Metallic file	B0402-0217		1	Sealey AK572	Imperial and metric. Blade dimension 75x13mm (total of 3 pcs)	1-Jun-09	
B04	02	0218	Tools	Tools Store	Plastic hammer	B0402-0218		1		30mm	1-Jun-09	
B04	02	0219	Tools	Tools Store	Plastic hammer	B0402-0219		1		30mm	1-Jun-09	
B04	02	0220	Tools	Tools Store	Plastic hammer	B0402-0220		1	Sealey NFH15	1.25 lb. 30mm	1-Jun-09	
B04	02	0221	Tools	Tools Store	Vernier calliper	B0402-0221		1	Facom 1300	0-150mm/0-6" stainless steel digital	1-Jun-09	
B04	02	0222	Tools	Tools Store	Thickness gauge	B0402-0222		1		0.05-1.00mm. 13 balllets	1-Jun-09	
B04	02	0223	Tools	Tools Store	Thickness gauge	B0402-0223		1		0.05-1.00mm. 13 balllets	1-Jun-09	
B04	02	0224	Tools	Tools Store	Thickness gauge	B0402-0224		1	Sealey VS512	Imperial graduated 35 blade feeler gauge dual marked 35 blades 75x13mm 0.0015"-0.035"	1-Jun-09	
B04	02	0225	Tools	Tools Store	Steel scale	B0402-0225		1		L form. length 300mm	1-Jun-09	
B04	02	0226	Tools	Tools Store	Steel scale	B0402-0226		1		L form. length 300mm	1-Jun-09	
B04	02	0227	Tools	Tools Store	Steel scale	B0402-0227		1	Sealey AK9841	Length 300mm	1-Jun-09	
B04	02	0228	Tools	Tools Store	Tape measure	B0402-0228		1	Sealey AK988	Length: 3m (10m) x width: 46mm	1-Jun-09	
B04	02	0229	Tools	Tools Store	Metal shears	B0402-0229		1	MS-12		1-Jun-09	
B04	02	0230	Tools	Tools Store	Metal saw	B0402-0230		1	1010600	including spare blades (8pcs x 2 packs)	1-Jun-09	
B04	02	0231	Tools	Tools Store	Vice	B0402-0231		1	FV80	Opening 65mm. width 80mm	1-Jun-09	
B04	02	0232	Tools	Tools Store	C type clamp	B0402-0232		1		5"	1-Jun-09	
B04	02	0233	Tools	Tools Store	C type clamp	B0402-0233		1		5"	1-Jun-09	
B04	02	0234	Tools	Tools Store	Gear puller	B0402-0234		1		4". 20-110mm width.	1-Jun-09	
B04	02	0235	Tools	Tools Store	Gear puller	B0402-0235		1		4". 20-110mm width.	1-Jun-09	
B04	02	0236	Tools	Tools Store	Gear puller	B0402-0236		1		8". 30-210mm width	1-Jun-09	
B04	02	0237	Tools	Tools Store	Gear puller	B0402-0237		1		8". 30-210mm width	1-Jun-09	
B04	02	0238	Tools	Tools Store	Gear puller	B0402-0238		1	Sealey AK79	75mm	1-Jun-09	
B04	02	0239	Tools	Tools Store	Gear puller	B0402-0239		1	Sealey AK79	160mm	1-Jun-09	
B04	02	0240	Tools	Tools Store	Gear puller	B0402-0240		1	Sealey AK79	150mm	1-Jun-09	
B04	02	0241	Tools	Tools Store	Gear puller	B0402-0241		1	Sealey AK79	200mm	1-Jun-09	
B04	02	0242	Tools	Tools Store	Pipe Cutter	B0402-0242		1	Sealey AK5062	ø3 - 50mm	1-Jun-09	
B04	02	0243	Tools	Tools Store	Pipe Cutter	B0402-0243		1	Sealey AK5062	ø3 - 50mm	1-Jun-09	
B04	02	0244	Tools	Tools Store	Metal Saw	B0402-0244		1		including spare blades (8pcs x 2 packs)	1-Dec-09	
B04	02	0245	Tools	Tools Store	Timber Hammer	B0402-0245		1	Everest - Quality Tools	300mm (12")	1-Dec-09	
B04	02	0246	Tools	Tools Store	Timber Saw	B0402-0246		1	Exploit item no (5110)	Hardpoint Teeth (tool box 300mm (12"))	1-Dec-09	
B04	02	0247	Tools	Tools Store	Timber Saw	B0402-0247		1	Exploit item no (5110)	Hardpoint Teeth (tool box 300mm (12"))	1-Dec-09	
B04	02	0248	Tools	Tools Store	Standard lever	B0402-0248		1		2 heads - Standard	1-Nov-09	
B04	02	0249	Tools	Tools Store	Standard lever	B0402-0249		1		2 heads - Standard	1-Nov-09	
B04	02	0250	Tools	Tools Store	Standard lever	B0402-0250		1		2 heads - Standard type 750mm	1-Nov-09	

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B04	02	0251	Tools	Tools Store	Fabricated lever	B0402-0251		1		2 Heads Fabricated type, 1000mm	1-Dec-09	
B04	02	0252	Tools	Tools Store	Fabricated lever	B0402-0252		1		2 Heads Fabricated type, 1000mm	1-Dec-09	
B04	02	0253	Tools	Tools Store	Metal Hammer	B0402-0253		1			1-Nov-09	
B05	02	0254	Tools	Storage	Vice	B0502-0254		1		Desk installation type, Width 6" (150mm)	1-Jun-09	KTC-4
B04	02	0255	Tools	Tools Store	Pipe wrench	B0402-0255		1		36"	1-Jun-09	
B04	02	0256	Tools	Tools Store	Pipe wrench	B0402-0256		1		36"	1-Jun-09	
B04	02	0257	Tools	Tools Store	Pipe wrench	B0402-0257		1		steel, 915mm, 13-100mm size 18	1-Jun-09	
B04	02	0258	Tools	Tools Store	Pipe wrench	B0402-0258		1		steel, 915mm, 13-100mm size 18	1-Jun-09	
B04	02	0259	Tools	Tools Store	Pipe wrench	B0402-0259		1		size 24	1-Jun-09	
B04	02	0260	Tools	Tools Store	Pipe wrench	B0402-0260		1		size 24	1-Jun-09	
B04	02	0261	Tools	Tools Store	Wire cutter	B0402-0261		1		18"450	1-Jun-09	
B04	02	0262	Tools	Tools Store	Wire cutter	B0402-0262		1		18"450	1-Jun-09	
B04	02	0263	Tools	Tools Store	Chain block	B0402-0263		1	Veital HSC SERIES	Veital OSAKA JAPAN HSC SERIES 3 ton/5m	1-Jun-09	
B06	02	0264	Tools	Experimental Room	Chain block	B0602-0264		1	Veital HSC SERIES	Veital OSAKA JAPAN HSC SERIES 3 ton/5m	1-Jun-09	
B04	02	0265	Tools	Tools Store	Lever block	B0402-0265		1		1.5 ton	1-Jun-09	
B04	02	0266	Tools	Tools Store	Lever block	B0402-0266		1		1.5 ton	1-Jun-09	
B04	02	0267	Tools	Tools Store	Hand Puller	B0402-0267		1		1 ton	1-Jun-09	
B06	02	0268	Tools	Experimental Room	Hand Puller	B0602-0268		1		1 ton	1-Jun-09	
B04	02	0269	Tools	Tools Store	Oil Manual Pump	B0402-0269		1			1-Jun-09	
B05	02	0270	Tools	Storage	Oil Manual Pump	B0502-0270		1			1-Jun-09	
B04	02	0271	Tools	Tools Store	Shackle	B0402-0271		12		20 mm size	1-Jun-09	
B04	02	0272	Tools	Tools Store	Wire Sling	B0402-0272		2		L= 50 cm	1-Jun-09	
B07	02	0273	Tools	Field	Wire Sling	B0702-0273		2		L= 2m	1-Jun-09	Container2
B07	02	0274	Tools	Field	Clamping bar	B0702-0274		1		1 inch	1-Jun-09	Container2
B07	02	0275	Tools	Field	Clamping bar	B0702-0275		1		1 inch	1-Jun-09	Container2
B07	02	0276	Tools	Field	Clamping bar	B0702-0276		1		2 inches	1-Jun-09	Container2
B07	02	0277	Tools	Field	Clamping bar	B0702-0277		1		3 inches	1-Jun-09	Container2
B07	02	0278	Tools	Field	Clamping bar	B0702-0278		1		3 inches	1-Jun-09	Container2
B07	02	0279	Tools	Field	Air-Lift Head	B0702-0279		1			1-Jun-09	Container2
B07	02	0280	Tools	Field	Lifting nipple	B0702-0280		1		GS 3 inches	1-Jun-09	
B07	02	0281	Tools	Field	Lifting nipple	B0702-0281		1		GS 3 inches	1-Jun-09	
B07	02	0282	Tools	Field	Lifting nipple	B0702-0282		1		GS 1 inch	1-Jun-09	
B07	02	0283	Tools	Field	Lifting nipple	B0702-0283		1		GS 1 inch	1-Jun-09	
B07	02	0284	Tools	Field	Pipe Elevator	B0702-0284		1		steel, 3 inches	1-Jun-09	
B07	02	0285	Tools	Field	Pipe Elevator	B0702-0285		1		steel, 3 inches	1-Jun-09	
B07	02	0286	Tools	Field	Pipe Elevator	B0702-0286		1		steel, 1 inch	1-Jun-09	

Inventory of Equipment in PWCT

StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B07	02	0287	Tools	Field	Pipe Elevator	B0702-0287		1		steel, 1 inch	1-Jun-09	
B07	02	0288	Tools	Field	Slide Tongue	B0702-0288		1		3 inches	1-Jun-09	
B07	02	0289	Tools	Field	Slide Tongue	B0702-0289		1		3 inches	1-Jun-09	
B07	02	0290	Tools	Field	Slide Tongue	B0702-0290		1		1 inch	1-Jun-09	
B07	02	0291	Tools	Field	Slide Tongue	B0702-0291		1		1 inch	1-Jun-09	
B07	02	0292	Tools	Field	Pipe table	B0702-0292		1		H=600x400x300mm φ=100mm	1-Jun-09	
B07	01	0293	Major Equipment	Field	Tripod	B0701-0293		1		Steel, H= 6m	1-Feb-09	
B05	01	0294	Major Equipment	Storage	Manual hydraulic stacker	B0501-0294		0	SDJ - 1000	RBR Capacity 1000 Kg Lifting height 1600 mm Weight 230 Kg L 1640x W 740 x H 2080 mm 3 stages, open room side type.	1-Jun-09	KTC-1
B04	02	0295	Tools	Tools Store	Tool s Box I	B0402-0295	TB - 01-01	1			1-Nov-08	
B04	02	0296	Tools	Tools Store	Tool s Box I	B0402-0296	TB - 01-02	1			1-Nov-08	
B04	02	0297	Tools	Tools Store	Tool s Box I	B0402-0297	TB - 01-03	1			1-Jul-09	
B04	02	0298	Tools	Tools Store	Tool s Box I	B0402-0298	TB - 01-04	1			1-Jul-09	
B04	02	0299	Tools	Tools Store	Tools Box II	B0402-0299	TB-02	1	Facom BT.11A	red color, 470x220x235mm	1-Jul-09	
B04	02	0300	Tools	Tools Store	Tool shelf	B0402-0300	TS - 01	1	AP0305B	Rollcab 6 drawer with ball bearing runners black	1-Jul-09	
B04	02	0301	Tools	Tools Store	Tool shelf	B0402-0301	TS - 02	1	AP0305B		1-Jun-09	
B05	01	0302	Major Equipment	Storage	Electric motor	B0501-0302	EM - 01	1	Saer MT4-83-132M	3 phase induction motor, 7.5 kW	1-Feb-09	Manual
B05	01	0303	Major Equipment	Storage	Control panel	B0501-0303	CP - 03	1	...	Direct line start circuit 10 HP	1-Feb-09	
B05	01	0304	Major Equipment	Storage	Control panel	B0501-0304	CP - 02	1	...	Star-delta start circuit	1-Feb-09	
B05	01	0305	Major Equipment	Storage	Control panel	B0501-0305	CP - 05	1	...	Auto-trans start circuit	1-Feb-09	
B05	01	0306	Major Equipment	Storage	Control panel	B0501-0306	CP - 01	1	...	Soft start circuit	1-Feb-09	
B05	01	0307	Major Equipment	Storage	Control panel	B0501-0307	CP - 04	1	...	Direct line start circuit 5.5 HP	1-Feb-09	
B07	01	0308	Major Equipment	Field	Submersible pump	B0701-0308		1	Bitfield BF1524	4KW, 2 inches	1-Feb-09	Manual
B07	01	0309	Major Equipment	Field	Vertical Motor	B0701-0309		1	BBC 4T55	4KW with 100m cable	1-Feb-09	Manual
B04	01	0310	Major Equipment	Tools Store	Submersible pump	B0401-0310		1		0.37kw 9m3/hr @5mH including 2" Hose x 100m. Power Cable x 50m. Switch Boxes	1-Feb-09	Manual
B04	01	0311	Major Equipment	Tools Store	Switch box	B0401-0311		1			1-Feb-09	
B06	01	0312	Major Equipment	Experimental Room	Centrifugal Pump	B0601-0312		1	Ebara ENR 032160CH	Spiral centrifugal pump 2.2KW H=31m. Q=21 l/min. 380V, 3phase	1-Feb-09	
B06	01	0313	Major Equipment	Experimental Room	Pipes threading machine	B0601-0313		1	Atlas Z1T.4	galvanized ASTM API pipes 1/2" - 4", 220V, 750W	1-Feb-09	Manual
B05	01	0314	Major Equipment	Storage	Welding machine	B0501-0314		1	SIHO BX1-500	100A/24V - 500A/40V 1-50 Hz	1-Feb-09	Manual

Inventory of Equipment in PWCT

StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B05	01	0315	Major Equipment	Storage	Welding machine	B0501-0315		1	SHIO BX1-400	80A/23V - 460A/36V	1-May-09	Manual
B07	01	0316	Major Equipment	Field	V-notch weir	B0701-0316		1		L=1400. W=600. H=560mm	1-May-09	
B05	01	0317	Major Equipment	Storage	Air compressor	B0501-0317		1	XAS97DD FB AC LEG		1-Nov-08	Manual
B06	01	0318	Major Equipment	Experimental Room	Water Tank	B0601-0318		1		Blue plastic tank. 5m3	1-Nov-08	
B05	01	0319	Major Equipment	Storage	Working Bench	B0501-0319		4		2m x 4m x 0.8m	1-May-09	
B06	01	0320	Major Equipment	Experimental Room	Pipe display panel	B0601-0320		1	Kamata Bio Engineering	Power source: 380V, 50Hz Diameter: 32A	1-Oct-09	
B07	02	0321	Tools	Field	Galvanized steel pipes	B0702-0321		53		3 inches 50 units x 3m =150m	1-Jun-09	
B07	02	0322	Tools	Field	Galvanized steel pipes	B0702-0322		50		1 inch 50 units x 3m =150m	1-Jun-09	
B07	02	0323	Tools	Field	Valve	B0702-0323		1	Gate valve	2 inches Galvanized steel (GS)	1-Jun-09	
B04	02	0324	Tools	Tools Store	Valve	B0402-0324		2	Ball type	3 inches both female ends. Italian	1-Jun-09	
B04	02	0325	Tools	Tools Store	Valve	B0402-0325		2	Ball type	Galvanized steel (GS). 2 inches both female ends. Italian	1-Jun-09	
B04	02	0326	Tools	Tools Store	L-connection pipe (Elbow)	B0402-0326		2		Galvanized steel (GS). 1 inch	1-Jun-09	
B04	02	0327	Tools	Tools Store	L-connection pipe (Elbow)	B0402-0327		7		Galvanized steel (GS). 2 inches	1-Jun-09	
B04	02	0328	Tools	Tools Store	L-connection pipe (Elbow)	B0402-0328		3		Galvanized steel (GS). 3 inches	1-Jun-09	
B04	02	0329	Tools	Tools Store	T - elbow	B0402-0329		2		Galvanized steel (GS). 3 inches	1-Jun-09	
B04	02	0330	Tools	Tools Store	Socket	B0402-0330		40		Galvanized steel (GS). 1 inch	1-Jun-09	
B04	02	0331	Tools	Tools Store	Socket	B0402-0331		9		Cgalvanized steel (GS). 2 inches	1-Jun-09	
B04	02	0332	Tools	Tools Store	Socket	B0402-0332		39		Galvanized steel (GS). 3 inches	1-Jun-09	
B04	02	0333	Tools	Tools Store	Nipple	B0402-0333		11		2"	1-Jun-09	
B04	02	0334	Tools	Tools Store	Nipple	B0402-0334		12		3"	1-Jun-09	
B04	02	0335	Tools	Tools Store	Union	B0402-0335		6		Galvanized steel (GS). 2 inches	1-Jun-09	
B04	02	0336	Tools	Tools Store	Union	B0402-0336		4		Galvanized steel (GS). 3 inches	1-Jun-09	
B04	02	0337	Tools	Tools Store	Reducer	B0402-0337		2		Galvanized steel (GS). 1" female - 2" male	1-Jun-09	
B04	02	0338	Tools	Tools Store	Reducer	B0402-0338		2		Galvanized steel (GS). 1" female - 2" female	1-Jun-09	
B04	02	0339	Tools	Tools Store	PE adaptor	B0402-0339		4		Polyethylene (PE). 1" male	1-Jun-09	
B04	02	0340	Tools	Tools Store	Hose adaptor	B0402-0340		1			1-Jun-09	
B04	02	0341	Tools	Tools Store	Elbow	B0402-0341		6		Plastic 2 inches	1-Jun-09	

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0342	Tools	Tools Store	T-Elbow	B0402-0342		1		Plastic 2 inches	1-Jun-09	
B04	02	0343	Tools	Tools Store	Soft-start control unit (SIRIUS)	B0402-0343	SCU - 01	1	3RW3034-1AB14		1-Jun-09	
B04	02	0344	Tools	Tools Store	Multi Range IC Timer	B0402-0344	MLT - 01	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0345	Tools	Tools Store	Multi Range IC Timer	B0402-0345	MLT - 02	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0346	Tools	Tools Store	Multi Range IC Timer	B0402-0346	MLT - 03	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0347	Tools	Tools Store	Multi Range IC Timer	B0402-0347	MLT - 04	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0348	Tools	Tools Store	Multi Range IC Timer	B0402-0348	MLT - 05	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0349	Tools	Tools Store	Multi Range IC Timer	B0402-0349	MLT - 06	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0350	Tools	Tools Store	Multi Range IC Timer	B0402-0350	MLT - 07	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0351	Tools	Tools Store	Multi Range IC Timer	B0402-0351	MLT - 08	1	AH3-NB	time: 3s to 30min Contact rating: 250VAC 5A resistive	1-Jun-09	
B04	02	0352	Tools	Tools Store	Electrodes for welding	B0402-0352		4		2.5mm	1-Jun-09	
B04	02	0353	Tools	Tools Store	Electrodes for welding	B0402-0353		4		3.2mm	1-Jun-09	
B04	02	0354	Tools	Tools Store	Electrodes for welding	B0402-0354		4		4mm	1-Jun-09	
B04	02	0355	Tools	Tools Store	Welding mask	B0402-0355		1			1-Jun-09	
B04	02	0356	Tools	Tools Store	Welding google	B0402-0356	WG - 01	1			1-Jun-09	
B04	02	0357	Tools	Tools Store	Welding google	B0402-0357	WG - 02	1			1-Jun-09	
B04	02	0358	Tools	Tools Store	Welding google	B0402-0358	WG - 03	1			1-Jun-09	
B05	02	0359	Tools	Storage	Helmet	B0502-0359	HMT 1	1			1-Jun-09	
B05	02	0360	Tools	Storage	Helmet	B0502-0360	HMT 2	1			1-Jun-09	
B05	02	0361	Tools	Storage	Helmet	B0502-0361	HMT 3	1			1-Jun-09	
B05	02	0362	Tools	Storage	Helmet	B0502-0362	HMT 4	1			1-Jun-09	
B05	02	0363	Tools	Storage	Helmet	B0502-0363	HMT 5	1			1-Jun-09	
B05	02	0364	Tools	Storage	Helmet	B0502-0364	HMT 6	1			1-Jun-09	
B05	02	0365	Tools	Storage	Helmet	B0502-0365	HMT 7	1			1-Jun-09	
B05	02	0366	Tools	Storage	Helmet	B0502-0366	HMT 8	1			1-Jun-09	
B05	02	0367	Tools	Storage	Helmet	B0502-0367	HMT 9	1			1-Jun-09	
B05	02	0368	Tools	Storage	Helmet	B0502-0368	HMT 10	1			1-Jun-09	
B05	02	0369	Tools	Storage	Helmet	B0502-0369	HMT 11	1			1-Jun-09	
B05	02	0370	Tools	Storage	Helmet	B0502-0370	HMT 12	1			1-Jun-09	

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B05	02	0371	Tools	Storage	Helmet	B0502-0371	HMT 13	1			1-Jun-09	
B05	02	0372	Tools	Storage	Helmet	B0502-0372	HMT 14	1			1-Jun-09	
B05	02	0373	Tools	Storage	Helmet	B0502-0373	HMT 15	1			1-Jun-09	
B05	02	0374	Tools	Storage	Helmet	B0502-0374	HMT 16	1			1-Jun-09	
B05	02	0375	Tools	Storage	Helmet	B0502-0375	HMT 17	1			1-Jun-09	
B05	02	0376	Tools	Storage	Helmet	B0502-0376	HMT 18	1			1-Jun-09	
B05	02	0377	Tools	Storage	Helmet	B0502-0377	HMT 19	1			1-Jun-09	
B05	02	0378	Tools	Storage	Helmet	B0502-0378	HMT 20	1			1-Jun-09	
B05	02	0379	Tools	Storage	Helmet	B0502-0379	HMT 21	1			1-Jun-09	
B05	02	0380	Tools	Storage	Helmet	B0502-0380	HMT 22	1			1-Jun-09	
B05	02	0381	Tools	Storage	Helmet	B0502-0381	HMT 23	1			1-Jun-09	
B05	02	0382	Tools	Storage	Helmet	B0502-0382	HMT 24	1			1-Jun-09	
B05	02	0383	Tools	Storage	Helmet	B0502-0383	HMT 25	1			1-Jun-09	
B05	02	0384	Tools	Storage	Helmet	B0502-0384	HMT 26	1			1-Jun-09	
B05	02	0385	Tools	Storage	Helmet	B0502-0385	HMT 27	1			1-Jun-09	
B05	02	0386	Tools	Storage	Helmet	B0502-0386	HMT 28	1			1-Jun-09	
B05	02	0387	Tools	Storage	Helmet	B0502-0387	HMT 29	1			1-Jun-09	
B05	02	0388	Tools	Storage	Helmet	B0502-0388	HMT 30	1			1-Jun-09	
B05	02	0389	Tools	Storage	Helmet	B0502-0389	HMT 31	1			1-Jun-09	
B05	02	0390	Tools	Storage	Helmet	B0502-0390	HMT 32	1			1-Jun-09	
B05	02	0391	Tools	Storage	Helmet	B0502-0391	HMT 33	1			1-Jun-09	
B05	02	0392	Tools	Storage	Helmet	B0502-0392	HMT 34	1			1-Jun-09	
B05	02	0393	Tools	Storage	Helmet	B0502-0393	HMT 35	1			1-Jun-09	
B05	02	0394	Tools	Storage	Helmet	B0502-0394	HMT 36	1			1-Jun-09	
B05	02	0395	Tools	Storage	Helmet	B0502-0395	HMT 37	1			1-Jun-09	
B05	02	0396	Tools	Storage	Helmet	B0502-0396	HMT 38	1			1-Jun-09	
B05	02	0397	Tools	Storage	Helmet	B0502-0397	HMT 39	1			1-Jun-09	
B05	02	0398	Tools	Storage	Helmet	B0502-0398	HMT 40	1			1-Jun-09	
B04	02	0399	Tools	Tools Store	Safety dress	B0402-0399		8		different sizes	1-Jun-09	
B05	02	0400	Tools	Storage	Safety boots	B0502-0400		23		different sizes	1-Jun-09	
B05	02	0401	Tools	Storage	Long boots	B0502-0401		30		rubber type, different sizes	1-Jun-09	
B04	02	0402	Tools	Tools Store	Working gloves	B0402-0402		66		cloth type	1-Jun-09	
B04	02	0403	Tools	Tools Store	Working gloves	B0402-0403		4		leather type	1-Jun-09	
B04	02	0404	Tools	Tools Store	Fire Extinguisher	B0402-0404	FEX - 01	1		6kg weight capacity	1-Jun-09	
B04	02	0405	Tools	Tools Store	Fire Extinguisher	B0402-0405	FEX - 02	1		6kg weight capacity	1-Jun-09	
B05	02	0406	Tools	Storage	Fire Extinguisher	B0502-0406	FEX - 03	1		6kg weight capacity	1-Jun-09	
B05	02	0407	Tools	Storage	Fire Extinguisher	B0502-0407	FEX - 04	1		6kg weight capacity	1-Jun-09	
B07	02	0408	Tools	Field	Multi purpose grease	B0702-0408		1		Mp3 / 15kg weight	1-Jun-09	
B04	02	0409	Tools	Tools Store	Fixing Code for Power Cable	B0402-0409		280		3 packsx100 units each	1-Jun-09	
B04	02	0410	Tools	Tools Store	Thread sel tape	B0402-0410		225		12x0.1mmx15m	1-Jun-09	
B04	02	0411	Tools	Tools Store	Vinyl tape	B0402-0411		217		3 packsx10 rolls	1-Jun-09	

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StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0412	Tools	Tools Store	Tank	B0402-0412		1		steel, 20 liters	1-Jun-09	
B04	02	0413	Tools	Tools Store	Tank	B0402-0413		1		steel, 20 liters	1-Jun-09	
B04	02	0414	Tools	Tools Store	Oil Jog	B0402-0414		1		5 liters	1-Jun-09	
B04	02	0415	Tools	Tools Store	Oil Jog	B0402-0415		1		5 liters	1-Jun-09	
B06	02	0416	Tools	Experimental Room	Polyethylene Pipe	B0602-0416		1		1 inch L= 150m	1-Jun-09	
B04	02	0417	Tools	Tools Store	Hose	B0402-0417		1	Sunny hose	2 inches L= 100m	1-Jun-09	
B04	02	0418	Tools	Tools Store	Hose	B0402-0418		1	Sunny hose	4 inches L=100m	1-Jun-09	
B05	02	0419	Tools	Storage	Hose	B0502-0419		1	Air hose	1 inch L= 20m	1-Jun-09	
B04	02	0420	Tools	Tools Store	Nylon rope	B0402-0420		300		φ 10mm, 4 unitsx100m	1-Jun-09	
B04	02	0421	Tools	Tools Store	Power cable	B0402-0421		1		L= 50m	1-Jun-09	
B04	02	0422	Tools	Tools Store	Electric cable	B0402-0422		1		L= 90m Instrument proper.	1-Jun-09	
B04	03	0423	Testing and Survey Equipment	Tools Store	Water leakage detector	B0403-0423	MI-1-01	1	FUJICOM / HG-10All	Headphone, Pickup sensor set. C. Yoshimura, Co.	1-Jan-08	Manual
B04	03	0424	Testing and Survey Equipment	Tools Store	Water leakage detector	B0403-0424	MI - 1 - 04	1	FUJICOM / HG-10All		1-Oct-09	Manual
B04	03	0425	Testing and Survey Equipment	Tools Store	Water leakage detector	B0403-0425	MI - 1 - 03	1	FUJICOM / HG-10All		1-Oct-09	Manual
B04	03	0426	Testing and Survey Equipment	Tools Store	Water leakage detector	B0403-0426	MI - 1 - 02	1	FUJICOM / HG-10All		1-Oct-09	Manual
B04	03	0427	Testing and Survey Equipment	Tools Store	Strobe scope	B0403-0427	MI - 2 - 01	1	SUGAWARA / MS-30	Instrument proper, Power cable, Adaptor	1-Jun-08	
B04	03	0428	Testing and Survey Equipment	Tools Store	Insulation Resistance Tester (Mega)	B0403-0428	MI - 3 - 03	1	SANWA / DM5218S	Leather case, 2 probes	1-Jun-08	Manual
B04	03	0429	Testing and Survey Equipment	Tools Store	Insulation Resistance Tester (Mega)	B0403-0429	MI - 3 - 01	1	SANWA / DM5218S	Leather case, 2 probes	1-Jun-08	Manual
B04	03	0430	Testing and Survey Equipment	Tools Store	Insulation Resistance Tester (Mega)	B0403-0430	MI - 3 - 02	1	SANWA / DM5218S	Leather case, 2 probes	1-Oct-09	Manual
B04	03	0431	Testing and Survey Equipment	Tools Store	Insulation Resistance Tester (Mega)	B0403-0431	MI - 3 - 04	1	SANWA / DM5218S	Leather case, 2 probes	1-Oct-09	Manual
B04	03	0432	Testing and Survey Equipment	Tools Store	Clamp meter	B0403-0432	MI - 4 - 01	1	SANWA / DCL1000	Leather case, 2 probes	1-Jun-08	Manual
B04	03	0433	Testing and Survey Equipment	Tools Store	Clamp meter	B0403-0433	MI - 4 - 02	1	SANWA / DCL1000	Leather case, 2 probes AC/DC current 0-2000A	1-Jun-08	Manual
B04	03	0434	Testing and Survey Equipment	Tools Store	Clamp meter	B0403-0434	MI - 5 - 01	1	Sealey MM405	voltage detection 100-800V AC	1-Oct-09	Manual
B04	03	0435	Testing and Survey Equipment	Tools Store	Earth tester	B0403-0435	MI - 6 - 02	1	HIOKI / 3151	Instrument proper, 3 type of cable, 2 rods, 6 batteries, Case	1-Jun-08	Manual
B04	03	0436	Testing and Survey Equipment	Tools Store	Earth tester	B0403-0436	MI - 6 - 01	1	HIOKI / 3151		1-Jun-08	Manual
B04	03	0437	Testing and Survey Equipment	Tools Store	Tester	B0403-0437	MI - 7 - 01	1	Facom 711	DC/AC voltages: 0-1mV to 600V, resistance 0.1 - 40Ω	1-Oct-09	Manual
B04	03	0438	Testing and Survey Equipment	Tools Store	Tester	B0403-0438	MI - 8 - 01	1	DT-830B	DC/AC voltages, DC voltage 100μV to 1mV, AC voltage 100mV to 1V DC current 100μA to 10mA resistance 0.1 - 1KΩ	1-Oct-09	Manual
B04	03	0439	Testing and Survey Equipment	Tools Store	Tester	B0403-0439	MI - 8 - 02	1	DT-830B	DC/AC voltages, DC voltage 100μV to 1mV, AC voltage 100mV to 1V DC current 100μA to 10mA, resistance 0.1 - 1KΩ	1-Oct-09	Manual

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	03	0440	Testing and Survey Equipment	Tools Store	Tester	B0403-0440	MI - 8 - 03	1	DT-830B	DC/AC voltages, DC voltage 100 μ V to 1mV, AC voltage 100mV to 1V DC current 100 μ A to 10mA, resistance 0.1 - 1K Ω	1-Oct-09	Manual
B04	03	0441	Testing and Survey Equipment	Tools Store	Tester	B0403-0441	MI - 8 - 04	1	DT-830B	DC/AC voltages, DC voltage 100 μ V to 1mV, AC voltage 100mV to 1V DC current 100 μ A to 10mA, resistance 0.1 - 1K Ω	1-Oct-09	Manual
B04	03	0442	Testing and Survey Equipment	Tools Store	Tester	B0403-0442	MI - 8 - 05	1	DT-830B	DC/AC voltages, DC voltage 100 μ V to 1mV, AC voltage 100mV to 1V DC current 100 μ A to 10mA, resistance 0.1 - 1K Ω	1-Oct-09	Manual
B04	03	0443	Testing and Survey Equipment	Tools Store	Tester	B0403-0443	MI - 8 - 06	1	DT-830B	DC/AC voltages, DC voltage 100 μ V to 1mV, AC voltage 100mV to 1V DC current 100 μ A to 10mA, resistance 0.1 - 1K Ω	1-Oct-09	Manual
B04	03	0444	Testing and Survey Equipment	Tools Store	Tester	B0403-0444	MI - 8 - 07	1	DT-830B	DC/AC voltages, DC voltage 100 μ V to 1mV, AC voltage 100mV to 1V DC current 100 μ A to 10mA, resistance 0.1 - 1K Ω	1-Oct-09	Manual
B04	03	0445	Testing and Survey Equipment	Tools Store	Tester	B0403-0445	MI - 8 - 08	1	DT-830B	DC/AC voltages, DC voltage 100 μ V to 1mV, AC voltage 100mV to 1V DC current 100 μ A to 10mA, resistance 0.1 - 1K Ω	1-Oct-09	Manual
B04	03	0446	Testing and Survey Equipment	Tools Store	Pressure gauge	B0403-0446	MI - 9 - 01	1	AT 3/8 100*1mPa	Kobata Gauge AT 3/8 100*1mPa 3/8, ϕ 10cm, 0-1MPa	1-Jun-08	
B04	03	0447	Testing and Survey Equipment	Tools Store	Pressure gauge	B0403-0447	MI - 9 - 02	1	AT 3/8 100*1mPa	Kobata Gauge AT 3/8 100*1mPa 3/8, ϕ 10cm, 0-1MPa including spare recording pen (12 units)	1-Jun-08	
B04	03	0448	Testing and Survey Equipment	Tools Store	Recording pressure gauge	B0403-0448	MI - 10 - 02	1	DA-121	spare recording paper (600 including spare recording pen (12 units)	1-Oct-09	
B04	03	0449	Testing and Survey Equipment	Tools Store	Recording pressure gauge	B0403-0449	MI - 10 - 03	1	DA-121	spare recording paper (600 including spare recording pen (12 units)	1-Oct-09	
B04	03	0450	Testing and Survey Equipment	Tools Store	Recording pressure gauge	B0403-0450	MI - 10 - 01	1	DA-121	spare recording paper (600 including spare recording pen (12 units)	1-Oct-09	
B04	03	0451	Testing and Survey Equipment	Tools Store	Water level meter	B0403-0451	MI - 11 - 01	1	Alpha WL100 Type 2B	100m	1-Jun-08	
B04	03	0452	Testing and Survey Equipment	Tools Store	Water meter	B0403-0452	MI - 12 - 01	1	(中国宇波)	80mm	1-Jun-08	

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StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	03	0453	Testing and Survey Equipment	Tools Store	Pipe line detector	B0403-0453	MI - 13 - 03	1	PL - 960	Cable with clip, 1 pc / unit Ground stick, 1 pc / unit Flags, 1 pc / unit Case 1 pc / unit	1-Jan-10	Manual
B04	03	0454	Testing and Survey Equipment	Tools Store	Pipe line detector	B0403-0454	MI - 13 - 02	1	PL - 960	Cable with clip, 1 pc / unit Ground stick, 1 pc / unit Flags, 1 pc / unit Case 1 pc / unit	1-Jan-10	Manual
B04	03	0455	Testing and Survey Equipment	Tools Store	Pipe line detector	B0403-0455	MI - 13 - 01	1	PL - 960	Cable with clip, 1 pc / unit Ground stick, 1 pc / unit Flags, 1 pc / unit Case 1 pc / unit	1-Jan-10	Manual

Inventory of Equipment in PWCT

StID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	03	0456	Testing and Survey Equipment	Tools Store	Pipe line detector	B0403-0456	Ml - 13 - 04	1	PL - 980	Cable with clip, 1 pc / unit Ground stick, 1 pc / unit Flags, 1 pc / unit Case 1 pc / unit	1-Jan-10	Manual
B04	03	0457	Testing and Survey Equipment	Tools Store	Ultrasonic Liquid flow meter	B0403-0457	Ml - 14 - 01	1	Portaflow C	AC adapter, Power connector conversion cord, Power cord, Analog input/output cord (L 1.5m), USB cable (L 1.5m), Carrying case, Strap, Signal cable (5m x 2pcs), BNC adapter, SD card (256MB), Attachment belt, Silicone grease (100g), DC power adapter, ES322BY1	1-Jan-10	Manual
B04	03	0458	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0458	Ql-13-01	1	MICREX-F70	CPU, NCTP-EO	1-Jan-10	
B04	03	0459	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0459	Ql-13-02	1	MICREX-F70	Power supply NC1S-1	1-Jan-10	
B04	03	0460	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0460	Ql-13-03	1	MICREX-F70	Attachment board, NCTB-02	1-Jan-10	
B04	03	0461	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0461	Ql-13-04	1	MICREX-F70	Digital output module, NC1Y16R-08	1-Jan-10	
B04	03	0462	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0462	Ql-13-05	1	MICREX-F70	Software, NL4N-WNSB	1-Jan-10	
B04	03	0463	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0463	Ql-13-06	1	MICREX-F70	Adapter, FLT-ASFKA	1-Jan-10	
B04	03	0464	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0464	Ql-13-07	1	MICREX-F70	FLC012A cable	1-Jan-10	
B04	03	0465	Testing and Survey Equipment	Tools Store	Programmable logic controller	B0403-0465	Ql-13-08	1		USB2.0 cable (L 1.5m)	1-Jan-10	
A05	03	0466	Testing and Survey Equipment	Printing room	GPS	A0503-0466	GPS-01	1	Garmin eTrex	Strap	1-Jun-08	Manual
A05	03	0467	Testing and Survey Equipment	Printing room	GPS	A0503-0467	GPS-02-01	1	Garmin GPS 60	Map Source: A203816788, Strap, Carrying case	1-Feb-09	Manual
A05	03	0468	Testing and Survey Equipment	Printing room	GPS	A0503-0468	GPS-02-02	1	Garmin GPS 60	Map Source: A203816590, Strap, Carrying case	1-Feb-09	Manual
A05	03	0469	Testing and Survey Equipment	Printing room	GPS	A0503-0469	GPS-02-03	1	Garmin GPS 60	Map Source: A203836027, Strap, Carrying case	1-Feb-09	Manual
A05	03	0470	Testing and Survey Equipment	Printing room	GPS	A0503-0470	GPS-02-04	1	Garmin GPS 60	Map Source: A203836923, Strap, Carrying case	1-Feb-09	Manual
A05	03	0471	Testing and Survey Equipment	Printing room	GPS	A0503-0471	GPS-02-05	1	Garmin GPS 60	Map Source: A203816577, Strap, Carrying case	1-Feb-09	Manual
A05	03	0472	Testing and Survey Equipment	Printing room	GPS	A0503-0472	GPS-02-06	1	Garmin GPS 60	Map Source: A203819891, Strap, Carrying case	1-Feb-09	Manual
A05	03	0473	Testing and Survey Equipment	Printing room	GPS	A0503-0473	GPS-02-07	1	Garmin GPS 60	Map Source: A203819893, Strap, Carrying case	1-Feb-09	Manual
A05	03	0474	Testing and Survey Equipment	Printing room	GPS	A0503-0474	GPS-02-08	1	Garmin GPS 60	Map Source: A203836922, Strap, Carrying case	1-Feb-09	Manual
A05	03	0475	Testing and Survey Equipment	Printing room	GPS	A0503-0475	GPS-02-09	1	Garmin GPS 60	Map Source: A203816786, Strap, Carrying case	1-Feb-09	Manual
A05	03	0476	Testing and Survey Equipment	Printing room	GPS	A0503-0476	GPS-02-10	1	Garmin GPS 60	Map Source: A203836920, Strap, Carrying case	1-Feb-09	Manual
A05	03	0477	Testing and Survey Equipment	Printing room	GPS	A0503-0477	GPS-02-11	1	Garmin GPS 60	Map Source: A203819896, Strap, Carrying case	1-Feb-09	Manual
A05	03	0478	Testing and Survey Equipment	Printing room	GPS	A0503-0478	GPS-02-12	1	Garmin GPS 60	Map Source: A203819894, Strap, Carrying case	1-Feb-09	Manual

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A05	03	0479	Testing and Survey Equipment	Printing room	GPS	A0503-0479	GFS-02-13	1	Garmin GPS 60	Map Source: A203819889; Strap. Carrying case	1-Feb-09	Manual
A05	03	0480	Testing and Survey Equipment	Printing room	GPS	A0503-0480	GFS-02-14	1	Garmin GPS 60	Map Source: A203819890; Strap. Carrying case	1-Feb-09	Manual
A05	03	0481	Testing and Survey Equipment	Printing room	GPS	A0503-0481	GFS-02-15	1	Garmin GPS 60	Map Source: A203836919; Strap. Carrying case	1-Feb-09	Manual
A08	04	0482	Water Quality	Laboratory	Jar tester	A0804-0482	QI-01-01	1	Myaimato MJS-6N	6 station, including transformer, L112 x W30 x H40	1-Oct-09	
A08	04	0483	Water Quality	Laboratory	Turbidimeter	A0804-0483	QI-02-01	1	LaMotte 2020e	Range: 0-400 NTU/FTU/FTU; 4 sample tube, 0.1 and 10 NTU standard sample bottle, extra battery (9V)	1-Oct-09	Manual
A08	04	0484	Water Quality	Laboratory	Colorimeter / Turbidimeter	A0804-0484	QI - 3 - 01	1	Aqua WA-PT-4DG	Turbidity: 0-20 mg/l Color: 0-50 2 spare cell, 1 cleaning wiper, cell cleaning fluid "to" water, case	1-Oct-09	Manual
A08	04	0485	Water Quality	Laboratory	Residual chlorine meter	A0804-0485	QI - 4 - 01	1	Tanita EW-510	range 0-2 mg/l	1-Oct-09	Manual
A08	04	0486	Water Quality	Laboratory	Residual chlorine meter	A0804-0486	QI - 4 - 01	1	Tanita EW-510	range 0-2 mg/l	1-Oct-09	Manual
A08	04	0487	Water Quality	Laboratory	EC/pH meter	A0804-0487	QI - 5 - 01	1	ToaDKK MM 22Ep	Range: pH 0-14; Ec 0.1mS/m-10S/m pH buffer 6.86 4.01; KCl solution (3.3N)	1-Oct-09	Manual
A08	04	0488	Water Quality	Laboratory	Multi-parameter water quality meter	A0804-0488	QI - 6 - 01	1	LaMotte Smart2	4 sample tube, AC adaptor, cardboard box	1-Oct-09	Manual
A08	04	0489	Water Quality	Laboratory	pH/ION/EC/DO Meter	A0804-0489		1	TOA DKK MM-60R	MM-60R Multi-function Water Quality Meter GST-5741C, pH Combined Electrode CL-2021 Chloride Ion Combined Electrode F-2021 Fluoride Ion Combined Electrode N-2031 Nitrate Combined Electrode AE-2041 Ammonium Combined Electrode OE-5705A, Dissolved Oxygen Electrode Optical Accessories	1-Jan-10	Manual

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	04	0490	Water Quality	Laboratory	Atomic Absorption Photometer	A0804-0490	QI - 8 - 01	1	AA-6300 SHIMIZU	AC power cable Hose assy (gas supply C2H2-L5ml/Capillary cleaning) Tube (sample suction 2pcs. organic solvent 1pc) Burner slot cleaning/burner height check acid (10) Seal joint assembly(for gas leak check) Polyethylene tube(No.3 L0.3m-8x1 L2.4m) Funnel assy/BS-232C cable	Jan/2010	Manual
A08	04	0491	Water Quality	Laboratory	Flame Spectrophotometer	A0804-0491		1	M410 Sherwood	Air tube(L2m) Fuel gas tube(2m) Drainage tube(20cmx2). Fuse(200mAx2pcs). Power cord. Washing wire, spare O ring. Nebulizer. Entrance tube(L15cm). Clamp(4pcs) Connection cable	Jan/2010	Manual
B04	03	0492	Testing and Survey Equipment	Tools Store	Borehole camera	B0403-0492		1	IDO 300F-II	Storage case for ground unit Probe storage case Centralizer for Ø 150 Tripod for Pulley and cable GZ.MG880 Photographic recorder (JVC)	1-Jan-10	Manual
A08	04	0493	Water Quality	Laboratory	Digital Burette	A0804-0493	QI - 11 - 01	1	182-001 DIGITRATE 50ml	30mm Bottleneck frying (1pc/unit) 262-103 Reserver, 2.5 liter 182-001 DIGITRATE 50ml with dry battery	Jan/2010	Manual
A08	04	0494	Water Quality	Laboratory	Digital Burette	A0804-0494	QI - 11 - 02	1	182-001 DIGITRATE 50ml	Bottleneck adapter (33mm, 1pc/unit) 262-103 Reserver, 2.5 liter 182-001 DIGITRATE 50ml with dry battery	Jan/2010	Manual
A08	04	0495	Water Quality	Laboratory	Digital Burette	A0804-0495	QI - 11 - 03	1	182-001 DIGITRATE 50ml	Bottleneck adapter (38mm, 1pc/unit) 262-103 Reserver, 2.5 liter 182-001 DIGITRATE 50ml with dry battery	Jan/2010	Manual
A08	04	0496	Water Quality	Laboratory	Digital Burette	A0804-0496	QI - 11 - 04	1	182-001 DIGITRATE 50ml	Bottleneck adapter (45mm, 1pc/unit) 262-103 Reserver, 2.5 liter 182-001 DIGITRATE 50ml with dry battery	Jan/2010	Manual
A08	04	0497	Water Quality	Laboratory	Air Compressor	A0804-0497	QI - 12 - 01	1	6-15-230-SMZ1	JUN - AIR Silent type	Jan/2010	Manual

Inventory of Equipment in PWCT

StID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	04	0498	Water Quality	Laboratory	Sludge Interface Meter	A0804-0498	QI - 14 - 01	1	SS-5Z	SS-5Z with dry battery Detector with 6m cable Shock absorption rubber for detector Washing brush Vinyle cover Strap Carrying case	Jan/2010	Manual
A08	04	0499	Water Quality	Laboratory	Printer	A0804-0499		1			Jan/2010	
A08	04	0500	Water Quality	Laboratory	Regulator	A0804-0500		1		Kuroda	Jan/2010	Manual
A08	04	0501	Water Quality	Laboratory	Air Compressor	A0804-0501		1		Sherwood 230 VAC 50 HZ Amps 0.65 5.5 Kg	Jan/2010	Manual
A08	04	0502	Water Quality	Laboratory	Iron reagent	A0804-0502		1	UDV 4315-C La Motte Total Iron UDV	for Smart2 colorimeter 1 UDV adapter chamber 5 pack bag x10 bags	1-Oct-09	
A08	04	0503	Water Quality	Laboratory	Manganese reagent	A0804-0503		1	Mananese LR 3658-SC	Sodium cyanide 10% (1 bottle) Manganese indicator reagent (1 bottle) Hardness Buffer Reagent (2 bottles)	1-Oct-09	
A08	04	0504	Water Quality	Laboratory	Mercury reagent	A0804-0504		1	La Motte Mercury Smart Reagent 4861	n-Propyl Alcohol (2 bottles) Acetate Buffer (1 bottle) TMK tablet (1 bottle) Snaple tube (1) Pipette (2)	1-Oct-09	
A08	04	0505	Water Quality	Laboratory	pH standard solution	A0804-0505		1	ToaDKK	pH4.01, 500ml, 25degrees	1-Oct-09	
A08	04	0506	Water Quality	Laboratory	pH standard solution	A0804-0506		1	ToaDKK	pH6.86, 500ml, 25degrees	1-Oct-09	
A08	04	0507	Water Quality	Laboratory	pH standard solution	A0804-0507		1	ToaDKK	pH9.18, 500ml, 25degrees	1-Oct-09	
A08	04	0508	Water Quality	Laboratory	Multi water analysis tools	A0804-0508		1		Ion Selective Electrode Type	1-Jan-10	
A08	04	0509	Water Quality	Laboratory	Hollow cathode lamp	A0804-0509		1		Hollow cathode lamps for Cd	1-Jan-10	
A08	04	0510	Water Quality	Laboratory	Hollow cathode lamp	A0804-0510		1		Hollow cathode lamps for Co	1-Oct-09	
A08	04	0511	Water Quality	Laboratory	Hollow cathode lamp	A0804-0511		1		Hollow cathode lamps for Cr	1-Oct-09	
A08	04	0512	Water Quality	Laboratory	Hollow cathode lamp	A0804-0512		1		Hollow cathode lamps for Cu	1-Oct-09	
A08	04	0513	Water Quality	Laboratory	Hollow cathode lamp	A0804-0513		1		Hollow cathode lamps for Fe	1-Oct-09	
A08	04	0514	Water Quality	Laboratory	Hollow cathode lamp	A0804-0514		1		Hollow cathode lamps for K	1-Oct-09	
A08	04	0515	Water Quality	Laboratory	Hollow cathode lamp	A0804-0515		1		Hollow cathode lamps for Pb	1-Oct-09	
A08	04	0516	Water Quality	Laboratory	Hollow cathode lamp	A0804-0516		1		Hollow cathode lamps for Mg	1-Oct-09	
A08	04	0517	Water Quality	Laboratory	Hollow cathode lamp	A0804-0517		1		Hollow cathode lamps for Li	1-Oct-09	
A08	04	0518	Water Quality	Laboratory	Hollow cathode lamp	A0804-0518		1		Hollow cathode lamps for Mn	1-Oct-09	
A08	04	0519	Water Quality	Laboratory	Hollow cathode lamp	A0804-0519		1		Hollow cathode lamps for Na	1-Oct-09	
A08	04	0520	Water Quality	Laboratory	Hollow cathode lamp	A0804-0520		1		Hollow cathode lamps for Ni	1-Oct-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	04	0521	Water Quality	Laboratory	Ink ribbon, paper rolls, and standard solution	A0804-0521		1		Ink ribbon x1	1-Jan-10	
A08	04	0522	Water Quality	Laboratory	Ink ribbon, paper rolls, and standard solution	A0804-0522		2		Paper roll x2	1-Jan-10	
A08	04	0523	Water Quality	Laboratory	Ink ribbon, paper rolls, and standard solution	A0804-0523		6		Na standard solution 1000ppm(100mL) x 6	1-Jan-10	
A08	04	0524	Water Quality	Laboratory	Ink ribbon, paper rolls, and standard solution	A0804-0524		6		K standard solution 1000ppm(100mL) x 6	1-Jan-10	
A08	04	0525	Water Quality	Laboratory	Ink ribbon, paper rolls, and standard solution	A0804-0525		6		Ca standard solution 1000ppm(100mL) x 6	1-Jan-10	
A08	04	0526	Water Quality	Laboratory	Ink ribbon, paper rolls, and standard solution	A0804-0526		6		Li standard solution 1000ppm(100mL) x 6	1-Jan-10	
A08	04	0527	Water Quality	Laboratory	Ink ribbon, paper rolls, and standard solution	A0804-0527		1		Filter for Li	1-Jan-10	
A08	04	0528	Water Quality	Laboratory	Fluorescent lamp	A0804-0528		3		PHILIPS 8 W	1-Jan-10	
A08	04	0529	Water Quality	Laboratory	Beakes	A0804-0529		1		1 liter. for jar tester	1-Oct-09	
A07	06	0530	Office Equipment	Expert office	Desktop Computer	A0706-0530	DTC-01	1	HP Compaq dx2390MT	Monitor, keyboard, mouse, speakers	1-Jun-08	
A06	06	0531	Office Equipment	Coordinator office	Desktop Computer	A0606-0531	DTC-22	1	HP Compaq dx2390MT		1-Jun-08	
A02	06	0532	Office Equipment	PC room	Desktop Computer	A0206-0532	DTC-02	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0533	Office Equipment	PC room	Desktop Computer	A0206-0533	DTC-03	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0534	Office Equipment	PC room	Desktop Computer	A0206-0534	DTC-04	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0535	Office Equipment	PC room	Desktop Computer	A0206-0535	DTC-05	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0536	Office Equipment	PC room	Desktop Computer	A0206-0536	DTC-06	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0537	Office Equipment	PC room	Desktop Computer	A0206-0537	DTC-07	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0538	Office Equipment	PC room	Desktop Computer	A0206-0538	DTC-08	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0539	Office Equipment	PC room	Desktop Computer	A0206-0539	DTC-09	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0540	Office Equipment	PC room	Desktop Computer	A0206-0540	DTC-10	1	HP Compaq dx2390	Monitor, keyboard, mouse	1-Jan-09	
A02	06	0541	Office Equipment	PC room	Desktop Computer	A0206-0541	DTC-11	1	HP Compaq dx2390		1-Jan-09	
A02	06	0542	Office Equipment	PC room	Desktop Computer	A0206-0542	DTC-12	1	HP Compaq dx2390		1-Jan-09	
A02	06	0543	Office Equipment	PC room	Desktop Computer	A0206-0543	DTC-13	1	HP Compaq dx2390		1-Jan-09	
A02	06	0544	Office Equipment	PC room	Desktop Computer	A0206-0544	DTC-14	1	HP Compaq dx2390		1-Jan-09	
A02	06	0545	Office Equipment	PC room	Desktop Computer	A0206-0545	DTC-15	1	HP Compaq dx2390		1-Jan-09	
A02	06	0546	Office Equipment	PC room	Desktop Computer	A0206-0546	DTC-16	1	HP Compaq dx2390		1-Jan-09	
A02	06	0547	Office Equipment	PC room	Desktop Computer	A0206-0547	DTC-17	1	HP Compaq dx2390		1-Jan-09	
A02	06	0548	Office Equipment	PC room	Desktop Computer	A0206-0548	DTC-18	1	HP Compaq dx2390		1-Jan-09	
A02	06	0549	Office Equipment	PC room	Desktop Computer	A0206-0549	DTC-19	1	HP Compaq dx2390		1-Jan-09	
A02	06	0550	Office Equipment	PC room	Desktop Computer	A0206-0550	DTC-20	1	HP Compaq dx2390		1-Jan-09	
A02	06	0551	Office Equipment	PC room	Desktop Computer	A0206-0551	DTC-21	1	HP Compaq dx2390		1-Jan-09	
A01	06	0552	Office Equipment	Director room	Laptop Computer	A0106-0552	PC-02	1	Dell Inspiron 1525	PC brief, carrying bag	1-Feb-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A06	06	0553	Office Equipment	Coordinator office	Laptop Computer	A0606-0553	PC - 03	1		PC-brief. carrying bag	1-Feb-09	
A08	06	0554	Office Equipment	Laboratory	Laptop Computer	A0806-0554	PC - 01	1	Toshiba Satellite Pro	Carrying bag	1-Feb-09	
A05	06	0555	Office Equipment	Printing room	Printer	A0506-0555	PR - 07	1	HP Laser Jet 5200tn	A3-A4 Laser BW Printer	1-Jun-08	Manual
A05	06	0556	Office Equipment	Printing room	Printer	A0506-0556	PR - 04	1		A3-A4 Laser BW Printer	1-Jan-09	Manual
A05	06	0557	Office Equipment	Printing room	Printer	A0506-0557	PR - 05	1		A3-A4 Laser BW Printer	1-Jan-09	Manual
A05	06	0558	Office Equipment	Printing room	Printer	A0506-0558	PR - 06	1		A3-A4 Laser BW Printer	1-Jan-09	Manual
A05	06	0559	Office Equipment	Printing room	Printer	A0506-0559	PR - 01	1	HP Office Jet Pro. K8600	Inkjet Color Printer	1-Jan-09	Manual
A05	06	0560	Office Equipment	Printing room	Printer	A0506-0560	PR - 02	1		Inkjet Color Printer	1-Jan-09	Manual
A05	06	0561	Office Equipment	Printing room	Printer	A0506-0561	PR - 03	1		Inkjet Color Printer	1-Jan-09	Manual
A05	06	0562	Office Equipment	Printing room	Plotter	A0506-0562	PLT - 01	1	HP Design Jet 500Plus	A0 - A1 Plotter inkjet color	1-Nov-08	Manual
A05	06	0563	Office Equipment	Printing room	Scanner	A0506-0563	SCN - 01	1	HP Scanjet N9120	A3 sheet feeder Printer, copy machine, scanner	1-Jan-09	Manual
A07	06	0564	Office Equipment	Expert office	Copy Machine	A0706-0564	CM - 01	1	RICOH aficio MP2000	Sheet-Feeder, Color	1-Nov-08	Manual
A05	06	0565	Office Equipment	Printing room	Copy Machine	A0506-0565	CM - 02	1	Rex-Rotary MP2000		1-Feb-09	Manual
A05	06	0566	Office Equipment	Printing room	Projector	A0506-0566	PRJ - 01	1	Epson EMP-S5	BW	1-Jun-08	Manual
B02	06	0567	Office Equipment	Seminar room.	Projector	B0206-0567	PRJ - 02	1	SONY VPL-S5		1-May-09	Manual
A04	06	0568	Office Equipment	seminar room2	Projector	A0406-0568	PRJ - 03	1	SONY VPL-S5		1-May-09	Manual
A09	06	0569	Office Equipment	PWC hall	Projection Screen	A0906-0569	PRS-01	1	LUMA	Walltype	1-Jun-08	
B02	06	0570	Office Equipment	Seminar room	Projection Screen	A0206-0570	PRS - 02	1	I View	with tripod	1-May-09	
A03	06	0571	Office Equipment	seminar room1	Projection Screen	A0306-0571	PRS - 03	1	I View	with tripod	1-May-09	
A02	06	0572	Office Equipment	PC room	White Board	A0206-0572	WTB - 01	1	No. HS-604T	120 x 180 cm. with stand	1-Mar-09	
A03	06	0573	Office Equipment	seminar room1	White Board	A0306-0573	WTB - 02	1	No. HS-604T	120 x 180 cm. with stand	1-Mar-09	
A04	06	0574	Office Equipment	seminar room2	White Board	A0406-0574	WTB - 03	1	No. HS-604T	120 x 180 cm. with stand	1-Mar-09	
B02	06	0575	Office Equipment	Seminar room	White Board	B0206-0575	WTB - 04	1	No. HS-604T	120 x 180 cm. with stand	1-Mar-09	
A07	06	0576	Office Equipment	Expert office	White Board	A0706-0576	WTB - 05	1	No. HS-604T	120 x 180 cm. with stand	1-Mar-09	
A02	06	0577	Office Equipment	PC room	GIS	A0206-0577	GIS-01	1	Ar-GIS 9.3 SU	90 x 120 cm	1-Mar-09	
A02	06	0578	Office Equipment	PC room	GIS	A0206-0578	GIS-02	1	Ar-GIS 9.3 SU	KEY422600437_v93.esu9	1-Nov-08	
A02	06	0579	Office Equipment	PC room	GIS	A0206-0579	GIS-03	1	Ar-GIS 9.3 SU	KEY422600582_v93.esu9	1-Nov-08	
A02	06	0580	Office Equipment	PC room	GIS	A0206-0580	GIS-04	1	Ar-GIS 9.3 SU	KEY422600605_v93.esu9	1-Nov-08	
A02	06	0581	Office Equipment	PC room	GIS	A0206-0581	GIS-05	1	Ar-GIS 9.3 SU	KEY422600961_v93.esu9	1-Nov-08	
A02	06	0582	Office Equipment	PC room	GIS	A0206-0582	GIS-06	1	Ar-GIS 9.3 SU	KEY422601107_v93.esu9	1-Nov-08	
A02	06	0583	Office Equipment	PC room	GIS	A0206-0583	GIS-07	1	Ar-GIS 9.3 SU	KEY422601453_v93.esu9	1-Nov-08	
A02	06	0584	Office Equipment	PC room	GIS	A0206-0584	GIS-08	1	Ar-GIS 9.3 SU	KEY422601619_v93.esu9	1-Nov-08	
A02	06	0585	Office Equipment	PC room	GIS	A0206-0585	GIS-09	1	Ar-GIS 9.3 SU	KEY422601635_v93.esu9	1-Nov-08	
A02	06	0586	Office Equipment	PC room	GIS	A0206-0586	GIS-10	1	Ar-GIS 9.3 SU	KEY422601790_v93.esu9	1-Nov-08	
A02	06	0587	Office Equipment	PC room	GIS	A0206-0587	GIS-11	1	Ar-GIS 9.3 SU	KEY422601824_v93.esu9	1-Nov-08	
A02	06	0588	Office Equipment	PC room	GIS	A0206-0588	GIS-12	1	Ar-GIS 9.3 SU	KEY423138538_v93.esu9	1-Jan-09	
A02	06	0589	Office Equipment	PC room	GIS	A0206-0589	GIS-13	1	Ar-GIS 9.3 SU	KEY423138753_v93.esu9	1-Jan-09	
A02	06	0590	Office Equipment	PC room	GIS	A0206-0590	GIS-14	1	Ar-GIS 9.3 SU	KEY423138759_v93.esu9	1-Jan-09	
A02	06	0591	Office Equipment	PC room	GIS	A0206-0591	GIS-15	1	Ar-GIS 9.3 SU	KEY423138418_v93.esu9	1-Jan-09	

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A02	06	0592	Office Equipment	PC room	GIS	A0206-0592	GIS-16	1	ArcGIS 9.3 SU	KEY423139543_v93.esu9	1-Jan-09	
A02	06	0593	Office Equipment	PC room	GIS	A0206-0593	GIS-17	1	ArcGIS 9.3 SU	KEY423139674_v93.esu9	1-Jan-09	
A02	06	0594	Office Equipment	PC room	GIS	A0206-0594	GIS-18	1	ArcGIS 9.3 SU	KEY423139983_v93.esu9	1-Jan-09	
A02	06	0595	Office Equipment	PC room	GIS	A0206-0595	GIS-19	1	ArcGIS 9.3 SU	KEY423140004_v93.esu9	1-Jan-09	
A02	06	0596	Office Equipment	PC room	GIS	A0206-0596	GIS-20	1	ArcGIS 9.3 SU	KEY423140180_v93.esu9	1-Jan-09	
A07	06	0597	Office Equipment	Expert office	Anti Virus	A0706-0597	ANT-01	1	Kaspersky I S 2010		1-Jan-09	
A07	06	0598	Office Equipment	Expert office	Anti Virus	A0706-0598	ANT-02	1	Kaspersky I S 2010		1-Jan-09	
A07	06	0599	Office Equipment	Expert office	Anti Virus	A0706-0599	ANT-03	1	Kaspersky I S 2010		1-Mar-09	
A07	06	0600	Office Equipment	Expert office	Anti Virus	A0706-0600	ANT-04	1	Kaspersky I S 2010		1-Mar-09	
A07	06	0601	Office Equipment	Expert office	Anti Virus	A0706-0601	ANT-05	1	Kaspersky I S 2010		1-Mar-09	
A07	06	0602	Office Equipment	Expert office	Anti Virus	A0706-0602	ANT-06	1	Kaspersky I S 2010		1-Mar-09	
A07	06	0603	Office Equipment	Expert office	Digital Video Camera	A0706-0603	CAM-02	1	SONY DCR - SR 45	charger, cables	1-Apr-09	
A07	06	0604	Office Equipment	Expert office	Digital Camera	A0706-0604	CAM-01	1	SONY cyber shot S-750	Battery charger, mem. Stick pro duo 2GB with adapter	1-Mar-09	
B02	06	0605	Office Equipment	Seminar room	DVD Player	B0206-0605	DVP -01	1	Panasonic DVD - S 33		1-May-09	
A01	06	0606	Office Equipment	Director room	Plasma TV	A0106-0606	PTV-01	1	Panasonic Viera	64 inches	1-May-09	
B02	06	0607	Office Equipment	Seminar room	Plasma TV	B0206-0607	PTV-02	1	Panasonic Viera	64 inches	1-May-09	
A05	06	0608	Office Equipment	Printing room	Loudspeaker, hand - free	A0506-0608	SHF - 01	1	PG-610-C	strap, AC Adaptor	1-Oct-09	
A05	06	0609	Office Equipment	Printing room	Loudspeaker, hand - free	A0506-0609	SHF - 02	1	PG-610-C	strap, AC Adaptor	1-Oct-09	
B01	06	0610	Office Equipment	Office	Loudspeaker, hand - free	B0106-0610	SHF - 03	1	PG-610-C	strap, AC Adaptor	1-Oct-09	
A07	06	0611	Office Equipment	Expert office	Wireless microphone & speaker system	A0706-0611	WSS - 03	1	Toe WA-1822 H	including 2 handy wireless microphone WM-5220 (C01) in each set	1-Oct-09	
A07	06	0612	Office Equipment	Expert office	Wireless microphone & speaker system	A0706-0612	WSS - 01	1	Toe WA-1822 H	including 2 handy wireless microphone WM-5220 (C01) in each set	1-Oct-09	
B02	06	0613	Office Equipment	Seminar room	Wireless microphone & speaker system	B0206-0613	WSS - 02	1	Toe WA-1822 H	including 2 handy wireless microphone WM-5220 (C01) in each set	1-Oct-09	
A05	06	0614	Office Equipment	Printing room	Telephone & Fax	A0506-0614	TF - 01	1	Panasonic KX-FM 386		1-May-09	
A06	06	0615	Office Equipment	Coordinator office	UPS	A0606-0615	UPS - 01	1	Crown - CM-650		1-Jun-08	
A07	06	0616	Office Equipment	Expert office	UPS	A0706-0616	UPS - 02	1	Crown - CM-650		1-Jun-08	
A07	06	0617	Office Equipment	Expert office	UPS	A0706-0617	UPS - 03	1	intex - IT 1500 V		1-Mar-09	
A02	06	0618	Office Equipment	PC room	UPS	A0206-0618	UPS - 04	1	intex - IT 1500 V		1-Mar-09	
A05	06	0619	Office Equipment	Printing room	UPS	A0506-0619	UPS - 10	1	intex - IT 1500 V		1-Mar-09	
A02	06	0620	Office Equipment	PC room	UPS	A0206-0620	UPS - 06	1	intex - IT 1500 V		1-Mar-09	
A02	06	0621	Office Equipment	PC room	UPS	A0206-0621	UPS - 07	1	intex - IT 1500 V		1-Mar-09	
A02	06	0622	Office Equipment	PC room	UPS	A0206-0622	UPS - 08	1	intex - IT 1500 V		1-Mar-09	
A02	06	0623	Office Equipment	PC room	UPS	A0206-0623	UPS - 09	1	intex - IT 1500 V		1-Mar-09	
A02	06	0624	Office Equipment	PC room	UPS	A0206-0624	UPS - 05	1	intex - IT 1500 V		1-Mar-09	
A02	06	0625	Office Equipment	PC room	UPS	A0206-0625	UPS - 11	1	intex - IT 1500 V		1-Mar-09	
A07	06	0626	Office Equipment	Expert office	Stabilizer	A0706-0626	STZ - 02	1	Dactaon - ST 1500 W		1-Mar-09	
A07	06	0627	Office Equipment	Expert office	Stabilizer	A0706-0627	STZ - 03	1	Dactaon - ST 1500 W		1-Mar-09	

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StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B01	06	0628	Office Equipment	Office	Stabilizer	B0106-0628	STZ - 04	1	Dacticon - ST 1500 W		1-Mar-09	
A07	06	0629	Office Equipment	Expert office	Stabilizer	A0706-0629	STZ - 01	1	KEBO - SDR 1500 V		1-Mar-09	
A08	06	0630	Office Equipment	Laboratory	Transformer	A0806-0630	TRS - 04	1	KEBO - SDR 1500 V	200V to 100V for jar tester	1-Mar-09	
A05	06	0631	Office Equipment	Printing room	Transformer	A0506-0631	TRS - 01	1	KASHIMURA TI-352	AC220-240V-100V, 35VA	1-Oct-09	
A05	06	0632	Office Equipment	Printing room	Transformer	A0506-0632	TRS - 02	1	KASHIMURA TI-352	AC220-240V-100V, 35VA	1-Oct-09	
A05	06	0633	Office Equipment	Printing room	Transformer	A0506-0633	TRS - 03	1	KASHIMURA TI-352	AC220-240V-100V, 35VA	1-Oct-09	
B04	02	0634	Tools	Tools Store	Extension Cable	B0402-0634	EC - 01	1		250 V 4 Sockets	1-Dec-09	
B04	02	0635	Tools	Tools Store	Extension Cable	B0402-0635	EC - 02	1		250 V 4 Sockets	1-Dec-09	
B01	06	0636	Office Equipment	Office	Desk	B0106-0636	DSK - 01	1	ST 1600	W1580 x D800 x H750mm	1-May-09	
B01	06	0637	Office Equipment	Office	Desk	B0106-0637	DSK - 02	1	ST 1600	W1580 x D800 x H750mm	1-May-09	
B01	06	0638	Office Equipment	Office	Desk	B0106-0638	DSK - 03	1	ST 1600	W1580 x D800 x H750mm	1-May-09	
B01	06	0639	Office Equipment	Office	Desk	B0106-0639	DSK - 04	1	ST 1600	W1580 x D800 x H750mm	1-May-09	
B01	06	0640	Office Equipment	Office	Desk	B0106-0640	DSK - 05	1	ST 1800 H	W1800 x D800 x H750mm	1-May-09	
B01	06	0641	Office Equipment	Office	Desk	B0106-0641	DSK - 06	1	ST 1800 H	W1800 x D800 x H750mm	1-May-09	
B01	06	0642	Office Equipment	Office	Desk	B0106-0642	DSK - 07	1		W1750 x D500mm	1-May-09	
B01	06	0643	Office Equipment	Office	Desk	B0106-0643	DSK - 08	1		W1750 x D500mm	1-May-09	
B01	06	0644	Office Equipment	Office	Desk	B0106-0644	DSK - 09	1		W1750 x D500mm	1-May-09	
B01	06	0645	Office Equipment	Office	Desk	B0106-0645	DSK - 10	1		W1750 x D500mm	1-May-09	
B01	06	0646	Office Equipment	Office	Desk	B0106-0646	DSK - 11	1		W1750 x D500mm	1-May-09	
B01	06	0647	Office Equipment	Office	Desk	B0106-0647	DSK - 12	1		W1750 x D500mm	1-May-09	
B01	06	0648	Office Equipment	Office	Desk	B0106-0648	DSK - 13	1		W1750 x D500mm	1-May-09	
B01	06	0649	Office Equipment	Office	Desk	B0106-0649	DSK - 14	1		W1750 x D500mm	1-May-09	
B01	06	0650	Office Equipment	Office	Desk	B0106-0650	DSK - 15	1		W1750 x D500mm	1-May-09	
B01	06	0651	Office Equipment	Office	Desk	B0106-0651	DSK - 16	1		W1750 x D500mm	1-May-09	
B01	06	0652	Office Equipment	Office	Desk	B0106-0652	DSK - 17	1		W1750 x D500mm	1-May-09	
B01	06	0653	Office Equipment	Office	Desk	B0106-0653	DSK - 18	1		W1750 x D500mm	1-May-09	
A07	06	0654	Office Equipment	Expert office	Desk	A0706-0654		1		W 600 x L 1200 mm	1-May-09	
A07	06	0655	Office Equipment	Expert office	Desk	A0706-0655		1		W 600 x L 1200 mm	1-May-09	
A05	06	0656	Office Equipment	Printing room	Desk	A0506-0656	DSK - 21	1		W 600 x L 1200 mm	1-May-09	
A06	06	0657	Office Equipment	Coordinator office	Desk	A0606-0657	DSK - 22	1		W 600 x L 1200 mm	1-May-09	
B01	06	0658	Office Equipment	Office	Chair	B0106-0658	CHR - 01	1		with shoulders	1-May-09	
B01	06	0659	Office Equipment	Office	Chair	B0106-0659	CHR - 02	1		with shoulders	1-May-09	
B01	06	0660	Office Equipment	Office	Chair	B0106-0660	CHR - 03	1		with shoulders	1-May-09	
B01	06	0661	Office Equipment	Office	Chair	B0106-0661	CHR - 04	1		with shoulders	1-May-09	
B02	06	0662	Office Equipment	Seminar room	Chair	B0206-0662	CHR - 08	1		folding type	1-May-09	
B02	06	0663	Office Equipment	Seminar room	Chair	B0206-0663	CHR - 10	1		folding type	1-May-09	
B02	06	0664	Office Equipment	Seminar room	Chair	B0206-0664	CHR - 11	1		folding type	1-May-09	
B02	06	0665	Office Equipment	Seminar room	Chair	B0206-0665	CHR - 12	1		folding type	1-May-09	
B02	06	0666	Office Equipment	Seminar room	Chair	B0206-0666	CHR - 13	1		folding type	1-May-09	

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B02	06	0667	Office Equipment	Seminar room	Chair	B0206-0667	CHR - 14	1		folding type	1-May-09	
B02	06	0668	Office Equipment	Seminar room	Chair	B0206-0668	CHR - 15	1		folding type	1-May-09	
B02	06	0669	Office Equipment	Seminar room	Chair	B0206-0669	CHR - 16	1		folding type	1-May-09	
B02	06	0670	Office Equipment	Seminar room	Chair	B0206-0670	CHR - 17	1		folding type	1-May-09	
B02	06	0671	Office Equipment	Seminar room	Chair	B0206-0671	CHR - 18	1		folding type	1-May-09	
B02	06	0672	Office Equipment	Seminar room	Chair	B0206-0672	CHR - 19	1		folding type	1-May-09	
B02	06	0673	Office Equipment	Seminar room	Chair	B0206-0673	CHR - 20	1		folding type	1-May-09	
B02	06	0674	Office Equipment	Seminar room	Chair	B0206-0674	CHR - 21	1		folding type	1-May-09	
B02	06	0675	Office Equipment	Seminar room	Chair	B0206-0675	CHR - 22	1		folding type	1-May-09	
B02	06	0676	Office Equipment	Seminar room	Chair	B0206-0676	CHR - 23	1		folding type	1-May-09	
B02	06	0677	Office Equipment	Seminar room	Chair	B0206-0677	CHR - 24	1		folding type	1-May-09	
B02	06	0678	Office Equipment	Seminar room	Chair	B0206-0678	CHR - 25	1		folding type	1-May-09	
B02	06	0679	Office Equipment	Seminar room	Chair	B0206-0679	CHR - 26	1		folding type	1-May-09	
B02	06	0680	Office Equipment	Seminar room	Chair	B0206-0680	CHR - 27	1		folding type	1-May-09	
B02	06	0681	Office Equipment	Seminar room	Chair	B0206-0681	CHR - 28	1		folding type	1-May-09	
B02	06	0682	Office Equipment	Seminar room	Chair	B0206-0682	CHR - 29	1		folding type	1-May-09	
B02	06	0683	Office Equipment	Seminar room	Chair	B0206-0683	CHR - 30	1		folding type	1-May-09	
B02	06	0684	Office Equipment	Seminar room	Chair	B0206-0684	CHR - 31	1		folding type	1-May-09	
B02	06	0685	Office Equipment	Seminar room	Chair	B0206-0685	CHR - 32	1		folding type	1-May-09	
B02	06	0686	Office Equipment	Seminar room	Chair	B0206-0686	CHR - 33	1		folding type	1-May-09	
B02	06	0687	Office Equipment	Seminar room	Chair	B0206-0687	CHR - 34	1		folding type	1-Dec-09	
B02	06	0688	Office Equipment	Seminar room	Chair	B0206-0688	CHR - 35	1		folding type	1-Dec-09	
B02	06	0689	Office Equipment	Seminar room	Chair	B0206-0689	CHR - 36	1		folding type	1-Dec-09	
B02	06	0690	Office Equipment	Seminar room	Chair	B0206-0690	CHR - 37	1		folding type	1-Dec-09	
B02	06	0691	Office Equipment	Seminar room	Chair	B0206-0691	CHR - 38	1		folding type	1-Dec-09	
B02	06	0692	Office Equipment	Seminar room	Chair	B0206-0692	CHR - 39	1		folding type	1-Dec-09	
B03	06	0693	Office Equipment	Resting room	Chair	B0306-0693	CHR - 40	1		folding type	1-Dec-09	
B03	06	0694	Office Equipment	Resting room	Chair	B0306-0694	CHR - 41	1		folding type	1-Dec-09	
B03	06	0695	Office Equipment	Resting room	Chair	B0306-0695	CHR - 42	1		folding type	1-Dec-09	
B03	06	0696	Office Equipment	Resting room	Chair	B0306-0696	CHR - 43	1		folding type	1-Dec-09	
B03	06	0697	Office Equipment	Resting room	Chair	B0306-0697	CHR - 44	1		folding type	1-Dec-09	
B03	06	0698	Office Equipment	Resting room	Chair	B0306-0698	CHR - 45	1		folding type	1-Dec-09	
B03	06	0699	Office Equipment	Resting room	Chair	B0306-0699	CHR - 46	1		folding type	1-Dec-09	
B03	06	0700	Office Equipment	Resting room	Chair	B0306-0700	CHR - 47	1		folding type	1-Dec-09	
B03	06	0701	Office Equipment	Resting room	Chair	B0306-0701	CHR - 48	1		folding type	1-Dec-09	
B03	06	0702	Office Equipment	Resting room	Chair	B0306-0702	CHR - 49	1		folding type	1-Dec-09	
B03	06	0703	Office Equipment	Resting room	Chair	B0306-0703	CHR - 50	1		folding type	1-Dec-09	
B03	06	0704	Office Equipment	Resting room	Chair	B0306-0704	CHR - 51	1		folding type	1-Dec-09	
B03	06	0705	Office Equipment	Resting room	Chair	B0306-0705	CHR - 52	1		folding type	1-Dec-09	
B03	06	0706	Office Equipment	Resting room	Chair	B0306-0706	CHR - 53	1		folding type	1-Dec-09	
B03	06	0707	Office Equipment	Resting room	Chair	B0306-0707	CHR - 54	1		folding type	1-Dec-09	

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Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B03	06	0708	Office Equipment	Resting room	Chair	B0306-0708	CHR - 55	1		folding type	1-Dec-09	
B01	06	0709	Office Equipment	Office	Chair	B0106-0709	CHR - 05	1		moving type	1-May-09	
B01	06	0710	Office Equipment	Office	Chair	B0106-0710	CHR - 06	1		moving type	1-May-09	
B01	06	0711	Office Equipment	Office	Chair	B0106-0711	CHR - 07	1		moving type	1-May-09	
B02	06	0712	Office Equipment	Seminar room	Chair	B0206-0712	CHR - 08	1		moving type	1-May-09	
B03	06	0713	Office Equipment	Resting room	Chair	B0306-0713	CHR - 09	1		moving type	1-May-09	
B05	06	0714	Office Equipment	Storage	Couch	B0506-0714	CHR - 10	1		made of wood and steel L= 4m. H=0.5m	1-May-09	
A08	06	0715	Office Equipment	Laboratory	Corner table	A0806-0715	LTA-01	1		No.1 (layout) L750 x W750 x H800mm	1-Oct-09	
A08	06	0716	Office Equipment	Laboratory	Side table	A0806-0716	LTA-02	1	SSE-127	No.2 (layout) L1200 x W750 x H800mm	1-Oct-09	
A08	06	0717	Office Equipment	Laboratory	Side table	A0806-0717	LTA-03	1			1-Oct-09	
A08	06	0718	Office Equipment	Laboratory	Side table	A0806-0718	LTA-04	1			1-Oct-09	
A08	06	0719	Office Equipment	Laboratory	Side table	A0806-0719	LTA-05	1	SSE-157S	No.3 (layout) L1500 x W750 x H800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0720	Office Equipment	Laboratory	Side table	A0806-0720	LTA-06	1	SSE-187S	No.4 (layout) L1800 x W750 x H800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0721	Office Equipment	Laboratory	Side table	A0806-0721	LTA-07	1	SSE-187S	No.4 (layout) L1800 x W750 x H800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0722	Office Equipment	Laboratory	Side table	A0806-0722	LTA-08	1	SSE-187S	No.4 (layout) L1800 x W750 x H800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0723	Office Equipment	Laboratory	Side table	A0806-0723	LTA-09	1	SSE-187S	No.4 (layout) L1800 x W750 x H800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0724	Office Equipment	Laboratory	Side table	A0806-0724	LTA-10	1	SSE-187S	No.4 (layout) L1800 x W750 x H800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	06	0725	Office Equipment	Laboratory	Side table	A0806-0725	LTA-11	1	SSE-187S	No. 4 (layout) L1800 x W750 x H800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0726	Office Equipment	Laboratory	Side table	A0806-0726	LTA-12	1	SSE-247S	No. 5 (layout) L2400 x W705 x H800mm 2-way gas cock (x2)	1-Oct-09	
A08	06	0727	Office Equipment	Laboratory	Side table	A0806-0727	LTA-13	1	SSE-247S	No. 5 (layout) L2400 x W705 x H800mm 2-way gas cock (x2)	1-Oct-09	
A08	06	0728	Office Equipment	Laboratory	Side table	A0806-0728	LTA-14	1	SSE-307S	No. 6 (layout) L3000 (1500x2) x W750 x H 800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0729	Office Equipment	Laboratory	Side table	A0806-0729	LTA-15	1	SSE-307S	No. 6 (layout) L3000 (1500x2) x W750 x H 800mm form type swing faucet (x1). small sink (x1). 2-way gas cock (x1)	1-Oct-09	
A08	06	0730	Office Equipment	Laboratory	Balance table	A0806-0730	LTA-16	1	TM-127S	No. 7 (layout) L1200 x W750 x H750mm steel plate L505xW450x t=10mm	1-Oct-09	
A08	06	0731	Office Equipment	Laboratory	Balance table	A0806-0731	LTA-17	1	TM-127S	No. 7 (layout) L1200 x W750 x H750mm steel plate L505xW450x t=10mm	1-Oct-09	
A08	06	0732	Office Equipment	Laboratory	Center table	A0806-0732	LTA-18	1	FCF-2412S	No. 8 (layout) L2400 x W1200 x H800mm table L800xW600 (x2). sink L1200xW600 (x1). reagent shelf L900xW300xH1000 (x2) swing faucet (x2). 2-way gas cock (x2)	1-Oct-09	
A08	06	0733	Office Equipment	Laboratory	Center table	A0806-0733	LTA-19	1	FCF-2412S	No. 8 (layout) L2400 x W1200 x H800mm table L800xW600 (x2). sink L1200xW600 (x1). reagent shelf L900xW300xH1000 (x2) swing faucet (x2). 2-way gas cock (x3)	1-Oct-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	06	0734	Office Equipment	Laboratory	Center table	A0806-0734	LTA-20	1	FCF-3615S	No 9 (layout) L3000 x W1500 x H800mm table L1500xW750 (x4) sink L1500xW600 (x1) reagent shelf L1500xW300 (x2) swing faucet (x2), 2-way gas cock (x2)	1-Oct-09	
A08	06	0735	Office Equipment	Laboratory	Wagon unit	A0806-0735	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0736	Office Equipment	Laboratory	Wagon unit	A0806-0736	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0737	Office Equipment	Laboratory	Wagon unit	A0806-0737	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0738	Office Equipment	Laboratory	Wagon unit	A0806-0738	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0739	Office Equipment	Laboratory	Wagon unit	A0806-0739	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0740	Office Equipment	Laboratory	Wagon unit	A0806-0740	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0741	Office Equipment	Laboratory	Wagon unit	A0806-0741	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0742	Office Equipment	Laboratory	Wagon unit	A0806-0742	LWA-01	1	WU-3A	L470 x W470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	06	0743	Office Equipment	Laboratory	Wagon unit	A0806-0743	LWA-01	1	WU-3A	L470 x W 470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S SSE247S, SSE307S	1-Oct-09	
A08	06	0744	Office Equipment	Laboratory	Wagon unit	A0806-0744	LWA-01	1	WU-3A	L470 x W 470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0745	Office Equipment	Laboratory	Wagon unit	A0806-0745	LWA-01	1	WU-3A	L470 x W 470 x H573mm 3 drawers type for each table: SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0746	Office Equipment	Laboratory	Wagon unit	A0806-0746	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0747	Office Equipment	Laboratory	Wagon unit	A0806-0747	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128 SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0748	Office Equipment	Laboratory	Wagon unit	A0806-0748	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128 SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0749	Office Equipment	Laboratory	Wagon unit	A0806-0749	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0750	Office Equipment	Laboratory	Wagon unit	A0806-0750	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0751	Office Equipment	Laboratory	Wagon unit	A0806-0751	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0752	Office Equipment	Laboratory	Wagon unit	A0806-0752	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128 SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	06	0753	Office Equipment	Laboratory	Wagon unit	A0806-0753	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0754	Office Equipment	Laboratory	Wagon unit	A0806-0754	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0755	Office Equipment	Laboratory	Wagon unit	A0806-0755	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0756	Office Equipment	Laboratory	Wagon unit	A0806-0756	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0757	Office Equipment	Laboratory	Wagon unit	A0806-0757	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0758	Office Equipment	Laboratory	Wagon unit	A0806-0758	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0759	Office Equipment	Laboratory	Wagon unit	A0806-0759	LWA-02	1	WU-3D	L470 x W 470 x H573mm 1 door type for each table: SSE-128, SSE-157S, SSE187S, SSE247S, SSE307S	1-Oct-09	
A08	06	0760	Office Equipment	Laboratory	Wagon unit	A0806-0760	LWA-03	1	WU-4A	L470 x W 470 x H690mm 4 drawers type for each table: FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0761	Office Equipment	Laboratory	Wagon unit	A0806-0761	LWA-03	1	WU-4A	L470 x W 470 x H690mm 4 drawers type for each table: FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0762	Office Equipment	Laboratory	Wagon unit	A0806-0762	LWA-03	1	WU-4A	L470 x W 470 x H690mm 4 drawers type for each table: FCF-2412S, FCF-3615S	1-Oct-09	

Inventory of Equipment in PWCT

StID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A08	06	0763	Office Equipment	Laboratory	Wagon unit	A0806-0763	LWA-03	1	WU-4A	L470 x W 470 x H680mm 4 drawers type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0764	Office Equipment	Laboratory	Wagon unit	A0806-0764	LWA-03	1	WU-4A	L470 x W 470 x H680mm 4 drawers type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0765	Office Equipment	Laboratory	Wagon unit	A0806-0765	LWA-03	1	WU-4A	L470 x W 470 x H680mm 4 drawers type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0766	Office Equipment	Laboratory	Wagon unit	A0806-0766	LWA-04	1	WU-4C	L470 x W 470 x H680mm 1 door & 1 drawer type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0767	Office Equipment	Laboratory	Wagon unit	A0806-0767	LWA-04	1	WU-4C	L470 x W 470 x H680mm 1 door & 1 drawer type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0768	Office Equipment	Laboratory	Wagon unit	A0806-0768	LWA-04	1	WU-4C	L470 x W 470 x H680mm 1 door & 1 drawer type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0769	Office Equipment	Laboratory	Wagon unit	A0806-0769	LWA-04	1	WU-4C	L470 x W 470 x H680mm 1 door & 1 drawer type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0770	Office Equipment	Laboratory	Wagon unit	A0806-0770	LWA-04	1	WU-4C	L470 x W 470 x H680mm 1 door & 1 drawer type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0771	Office Equipment	Laboratory	Wagon unit	A0806-0771	LWA-04	1	WU-4C	L470 x W 470 x H680mm 1 door & 1 drawer type for each table. FCF-2412S, FCF-3615S	1-Oct-09	
A08	06	0772	Office Equipment	Laboratory	Draft Chamber	A0806-0772	DCH-01	1	DSS-157CS	DSS-157CS with transformer for exhaust fan	1-Jan-10	
B01	06	0773	Office Equipment	Office	Bookshelf	B0106-0773	BS-01	1		1 x 2 x 0.5 m	1-May-09	
B01	06	0774	Office Equipment	Office	Bookshelf	B0106-0774	BS-02	1		1 x 2 x 0.5 m	1-May-09	
B03	06	0775	Office Equipment	Resting room	Bookshelf	B0306-0775	BS-03	1		1 x 2 x 0.5 m	1-May-09	
A07	06	0776	Office Equipment	Expert office	Bookshelf	A0706-0776	BS-04	1		1 x 2 x 0.5 m	1-May-09	
A07	06	0777	Office Equipment	Expert office	Bookshelf	A0706-0777	BS-05	1		1 x 2 x 0.5 m	1-May-09	
A07	06	0778	Office Equipment	Expert office	Bookshelf	A0706-0778	BS-06	1		1 x 2 x 0.5 m	1-May-09	
B04	06	0779	Office Equipment	Tools Store	Shelf	B0406-0779	SEF-01	1		1 x 5 x 2m made of steel	1-May-09	
B04	06	0780	Office Equipment	Tools Store	Cabinet	B0406-0780	CAB - 01	1		steel, 2 doors type	1-May-09	
B04	06	0781	Office Equipment	Tools Store	Cabinet	B0406-0781	CAB - 02	1		steel, 2 doors type	1-May-09	

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StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	06	0782	Office Equipment	Tools Store	Cabinet	B0406-0782	CAB - 03	1		steel, 2 doors type	1-May-09	
A05	06	0783	Office Equipment	Printing room	Cabinet	A0506-0783	CAB - 04	1		steel, 4 drawers type	1-May-09	
B01	06	0784	Office Equipment	Office	Cabinet	B0106-0784	CAB - 05	1		steel, 4 drawers type	1-May-09	
B05	06	0785	Office Equipment	Storage	Large wind fan	B0506-0785	FAN - 01	1			1-May-09	
B05	06	0786	Office Equipment	Storage	Large wind fan	B0506-0786	FAN - 02	1			1-May-09	
B05	06	0787	Office Equipment	Storage	Large wind fan	B0506-0787	FAN - 03	1			1-May-09	
B04	06	0788	Office Equipment	Tools Store	Large wind fan	B0406-0788	FAN - 04	1			1-May-09	
B05	06	0789	Office Equipment	Storage	Water server	B0506-0789	WS - 02	1		Hot and cold water	1-May-09	
B05	06	0790	Office Equipment	Storage	Water server	B0506-0790	WS - 03	1		Hot and cold water	1-May-09	
B05	06	0791	Office Equipment	Storage	Water server	B0506-0791	WS - 04	1		Hot and cold water	1-May-09	
B03	06	0792	Office Equipment	Resting room	Water server	B0306-0792	WS - 01	1		Hot and cold water	1-May-09	
B01	06	0793	Office Equipment	Office	Refrigerator	B0106-0793	REF - 01	1		HITACHI 2 doors, 18 feet 220 - 240 V, 50 Hz	1-May-09	
B05	05	0794	Display Model	Storage	Cut-Away model of submersible type water pump	B0505-0794	DM - 07	1	32BMS		1-Jan-10	
B05	05	0795	Display Model	Storage	Cut-Away model of Multistage Centrifugal pump	B0505-0795	DM - 05	1	1305		1-Jan-10	
B05	05	0796	Display Model	Storage	Cut-Away model of Water Cooled diesel engine	B0505-0796	DM - 09	1	1213		1-Jan-10	
B05	05	0797	Display Model	Storage	Cut-Away model of Air compressor	B0505-0797	DM - 08	1	374A		1-Jan-10	
B05	05	0798	Display Model	Storage	Cut-Away model of Gate valve	B0505-0798	DM - 04	1	2105		1-Jan-10	
B05	05	0799	Display Model	Storage	Cut-Away model of Butterfly valve	B0505-0799	DM - 03	1	2106B		1-Jan-10	
B05	05	0800	Display Model	Storage	Cut-Away model of Ball valve	B0505-0800	DM - 01	1	2104		1-Jan-10	
B05	05	0801	Display Model	Storage	Cut-Away model of Globe valve	B0505-0801	DM - 02	1			1-Jan-10	
B05	05	0802	Display Model	Storage	Cut-Away model of Centrifugal water pump	B0505-0802	DM - 06	1	2103		1-Jan-10	
A07	07	0803	Reference Book	Expert office	Water Supply	A0707-0803		1	water treatment Process - Simple Customer-focused	CRC-Press (1995/7)	1-May-09	
A07	07	0804	Reference Book	Expert office	Water Supply	A0707-0804		1	Water Treatment Plant Design 4th ed.	Mcgraw-Hill (Tx) (2004/11)	1-May-09	
A07	07	0805	Reference Book	Expert office	Water Supply	A0707-0805		1	Water Loss Control	Mcgraw-Hill (Tx) (2008/6)	1-May-09	
A07	07	0806	Reference Book	Expert office	Water Supply	A0707-0806		1	Water Distribution System Handbook	Mcgraw-Hill (Tx) (1999/9)	1-May-09	
A07	07	0807	Reference Book	Expert office	Water Quality	A0707-0807		1	Handbook of Water Analysis Analytical Methods For	Crc Pr Llc (2007/6)	1-May-09	
A07	07	0808	Reference Book	Expert office	Water Quality	A0707-0808		1	Drinking Water: Advances In Sampling And Analysis (Water Quality Measurements Series)	John Wiley & Sons Inc (2005/12)	1-May-09	
A07	07	0809	Reference Book	Expert office	Water Quality	A0707-0809		1	Principles of Water Quality Control	Butterworth-Heinemann (1998/2)	1-May-09	

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StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A07	07	0810	Reference Book	Expert office	Electric & Mechanics	A0707-0810		1	Industrial Electricity and Motor Controls	McGraw-Hill Prof. (2007/12)	1-May-09	
A07	07	0811	Reference Book	Expert office	Electric & Mechanics	A0707-0811		1	Electric Motors and Drives Fundamentals, Types and Applications	Newnes (2001/8)	1-May-09	
A07	07	0812	Reference Book	Expert office	Electric & Mechanics	A0707-0812		1	Electric Motors (Audel Technical Trades Series)	Audel (2003/12)	1-May-09	
A07	07	0813	Reference Book	Expert office	Electric & Mechanics	A0707-0813		1	Diesel Engine and Fuel System Repair	Prentice-Hall College Div (1997/16)	1-May-09	
A07	07	0814	Reference Book	Expert office	Electric & Mechanics	A0707-0814		1	Diesel Generator		1-May-09	
A07	07	0815	Reference Book	Expert office	Groundwater	A0707-0815		1	Handbook (Institut Francais Du Petrole)	Technip Editions (2000/01)	1-May-09	
A07	07	0816	Reference Book	Expert office	Groundwater	A0707-0816		1	Hydrogeology Field Manual 2nd ed	McGraw-Hill Professional (2008/1)	1-May-09	
A07	07	0817	Reference Book	Expert office	Groundwater	A0707-0817		1	Groundwater and Wells 2 Sub ed	Reynolds Guyar Designs (1986/12)	1-May-09	
A07	07	0818	Reference Book	Expert office	Groundwater	A0707-0818		1	Groundwater	Springer (1999/12)	1-May-09	
A07	07	0819	Reference Book	Expert office	Geographic Information System	A0707-0819		1	Getting to Know ArcGIS Desktop The Basics of ArcView, ArcEditor, and ArcInfo	ESRI PRESS (2008/12)	1-May-09	
A07	07	0820	Reference Book	Expert office	Geographic Information System	A0707-0820		1	The ESRI Guide to GIS Analysis, Vol. 1 Geographic Patterns and Relationships	ESRI PRESS (1999/07)	1-May-09	
A07	07	0821	Reference Book	Expert office	Geographic Information System	A0707-0821		1	The ESRI Guide to GIS Analysis, Vol. 2 Spatial Measurements and Statistics	ESRI PRESS (2005/7)	1-May-09	
A07	07	0822	Reference Book	Expert office	Geographic Information System	A0707-0822		1	Geodatabases: Case Studies in GIS Data Management	ESRI PRESS (2004/8)	1-May-09	
A07	07	0823	Reference Book	Expert office	Management	A0707-0823		1	Management	McGraw-Hill International Editions (1997/11)	1-May-09	
A07	07	0824	Reference Book	Expert office	Management	A0707-0824		1	Implementing Electronic Document And Record management System	Auerbach Pub (2007/8)	1-May-09	
A07	07	0825	Reference Book	Expert office	Management	A0707-0825		1	The New Rational	Kepper-Tregoe	1-May-09	
A07	07	0826	Reference Book	Expert office	Management	A0707-0826		1	Records Management Workbook	South-Western Pub (1991/8)	1-May-09	
A07	07	0827	Reference Book	Expert office	Wellmanagement	A0707-0827			Water Wells: Monitoring Maintenance		1-May-10	
A07	07	0828	Reference Book	Expert office	Wellmanagement	A0707-0828			Sustainable Wells: Maintenance, Problem Prevention And Rehabilitation		1-May-10	
A07	07	0829	Reference Book	Expert office	Wellmanagement	A0707-0829			Water Wells and Pumps		1-May-10	

Inventory of Equipment in PWCT

StdID	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
A07	07	0830	Reference Book	Expert office	Wellmanagement	A0707-0830			Providing Safe Drinking Water in Small Systems: Technology, Operations and Economics		1-May-10	
A07	07	0831	Reference Book	Expert office	Water Quality	A0707-0831			Standard Methods for Examination of Water & Wastewater, Centennial Edition (Standard Methods for the Examination of Water and Wastewater)		1-May-10	
A07	07	0832	Reference Book	Expert office	Water Quality	A0707-0832			Theory and Practice of Water and Wastewater Treatment		1-May-10	
A07	07	0833	Reference Book	Expert office	Water Quality	A0707-0833			Inorganic Quantitative Analysis		1-May-10	
A07	07	0834	Reference Book	Expert office	Geographic Information System	A0707-0834			Unlocking the Census with GIS		1-May-10	
A07	07	0835	Reference Book	Expert office	Geographic Information System	A0707-0835			Archydro: Gis for Water Resources		1-May-10	
A07	07	0836	Reference Book	Expert office	Geographic Information System	A0707-0836			GIS for Environmental Management		1-May-10	
A07	07	0837	Reference Book	Expert office	Geographic Information System	A0707-0837			Gis for Water Resources and Watershed Management		1-May-10	
A07	07	0838	Reference Book	Expert office	Geographic Information System	A0707-0838			Access 2003 FOR Database		1-May-10	
A07	07	0839	Reference Book	Expert office	Geographic Information System	A0707-0839			Database Management Systems		1-May-10	
A07	07	0840	Reference Book	Expert office		A0707-0840			Design of Water Supply Pipe Networks		1-May-10	
A07	07	0841	Reference Book	Expert office	Water Supply	A0707-0841			Water Supply & Distribution		1-May-10	
A07	07	0842	Reference Book	Expert office	Water Supply	A0707-0842			Water Treatment (Water Supply Operations Training Series)		1-May-10	
A07	07	0843	Reference Book	Expert office	Water Supply	A0707-0843			Math for Distribution System Operators: Practice Problems to Prepare for Distribution System Operator Certification Exams		1-May-10	
B04	02	0844	Tools	Tools Store	Nylon Sling 1m	B0402-0844		1		4t	14-Feb-10	
B04	02	0845	Tools	Tools Store	Nylon Sling 1m	B0402-0845		1		4t	14-Feb-10	
B04	02	0846	Tools	Tools Store	Nylon Sling 1m	B0402-0846		1		4t	14-Feb-10	
B04	02	0847	Tools	Tools Store	Nylon Sling 1m	B0402-0847		1		4t	14-Feb-10	
B04	02	0848	Tools	Tools Store	Nylon Sling 2m	B0402-0848		1		3t	14-Feb-10	
B04	02	0849	Tools	Tools Store	Nylon Sling 2m	B0402-0849		1		3t	14-Feb-10	
B04	02	0850	Tools	Tools Store	Nylon Sling 3m	B0402-0850		1		3t	14-Feb-10	
B04	02	0851	Tools	Tools Store	Nylon Sling 3m	B0402-0851		1		3t	14-Feb-10	

Inventory of Equipment in PWCT

Std	CatID	ItemID	Category	Store	Item	EqID	Old ID	Qty	Model	Specification	Acquisition Date	Remarks
B04	02	0852	Tools	Tools Store	Nylon Sling 5m	B0402-0852		1		3t	14-Feb-10	
B04	02	0853	Tools	Tools Store	Nylon Sling 5m	B0402-0853		1		3t	14-Feb-10	
B04	02	0854	Tools	Tools Store	Nylon Sling 5m	B0402-0854		1		3t	14-Feb-10	
B04	02	0855	Tools	Tools Store	Nylon Sling 5m	B0402-0855		1		3t	14-Feb-10	
B04	02	0856	Tools	Tools Store	Nylon Sling 6m	B0402-0856		1		2t	14-Feb-10	
B04	02	0857	Tools	Tools Store	Nylon Sling 6m	B0402-0857		1		2t	14-Feb-10	
B04	02	0858	Tools	Tools Store	Nylon Sling 6m	B0402-0858		1		2t	14-Feb-10	
B04	02	0859	Tools	Tools Store	Nylon Sling 6m	B0402-0859		1		2t	14-Feb-10	
B04	02	0860	Tools	Tools Store	Wire Brush	B0402-0860		8			14-Feb-10	
B04	02	0861	Tools	Tools Store	Shackle	B0402-0861		8		8mm	14-Feb-10	
B04	02	0862	Tools	Tools Store	Ball Valve	B0402-0862		2		1/2"	14-Feb-10	
B04	02	0863	Tools	Tools Store	Elbow	B0402-0863		3		1-1/4"	14-Feb-10	
B04	02	0864	Tools	Tools Store	Elbow	B0402-0864		4		1/2"	14-Feb-10	
B04	02	0865	Tools	Tools Store	T-Elbow	B0402-0865		2		2"	14-Feb-10	
B04	02	0866	Tools	Tools Store	T-Elbow	B0402-0866		4		3"	14-Feb-10	
B04	02	0867	Tools	Tools Store	Nipple	B0402-0867		5		1/2"	14-Feb-10	
B04	02	0868	Tools	Tools Store	Nipple	B0402-0868		1		3/4"	14-Feb-10	
B04	02	0869	Tools	Tools Store	Reducer	B0402-0869		3		3/4"Female-2"male	14-Feb-10	
B04	02	0870	Tools	Tools Store	Reducer	B0402-0870		1		3/4"Female-1-1/2"male	14-Feb-10	
B04	02	0871	Tools	Tools Store	Reducer	B0402-0871		1		3/4"Female-1"Female	14-Feb-10	
B04	02	0872	Tools	Tools Store	Reducer	B0402-0872		1		1-1/2"Female-2"Female	14-Feb-10	
B04	02	0873	Tools	Tools Store	Reducer	B0402-0873		2		2"Female-3"Female	17-Feb-10	
B01	06	0874	Office Equipment	Office	Calculator	B0106-0874		1		scientific	22-Feb-10	
B01	06	0875	Office Equipment	Office	Calculator	B0106-0875		1			22-Feb-10	
B01	06	0876	Office Equipment	Office	Calculator	B0106-0876		1			22-Feb-10	
B01	06	0877	Office Equipment	Office	Calculator	B0106-0877		1			22-Feb-10	
B01	06	0878	Office Equipment	Office	Calculator	B0106-0878		1			22-Feb-10	
B01	06	0879	Office Equipment	Office	Calculator	B0106-0879		1			22-Feb-10	
B01	06	0880	Office Equipment	Office	Calculator	B0106-0880		1			22-Feb-10	
B01	06	0881	Office Equipment	Office	Calculator	B0106-0881		1			22-Feb-10	
B01	06	0882	Office Equipment	Office	Calculator	B0106-0882		1			22-Feb-10	
B01	06	0883	Office Equipment	Office	Calculator	B0106-0883		1			22-Feb-10	
B01	06	0884	Office Equipment	Office	Calculator	B0106-0884		1			22-Feb-10	
B01	06	0885	Office Equipment	Office	Calculator	B0106-0885		1			22-Feb-10	
B01	06	0886	Office Equipment	Office	Calculator	B0106-0886		1			22-Feb-10	
B01	06	0887	Office Equipment	Office	Calculator	B0106-0887		1			22-Feb-10	
B01	06	0888	Office Equipment	Office	Calculator	B0106-0888		1			22-Feb-10	
B01	06	0889	Office Equipment	Office	Calculator	B0106-0889		1			22-Feb-10	
B01	06	0890	Office Equipment	Office	Calculator	B0106-0890		1			22-Feb-10	
B01	06	0891	Office Equipment	Office	Calculator	B0106-0891		1			22-Feb-10	
B01	06	0892	Office Equipment	Office	Calculator	B0106-0892		1			22-Feb-10	

1.2 Equipment Entry Sheet

Equipment Entry Sheet

No.	Date	EqID	Entry	Exit	Remarks
1	1-Jun-09	B0402-0001	2		New Item
2	1-Jun-09	B0402-0002	2		New Item
3	1-Jun-09	B0402-0003	1		New Item
4	1-Jun-09	B0402-0004	1		New Item
5	1-Jun-09	B0402-0005	1		New Item
6	1-Jun-09	B0402-0006	1		New Item
7	1-Jun-09	B0402-0007	1		New Item
8	1-Jun-09	B0402-0008	1		New Item
9	1-Jun-09	B0402-0009	1		New Item
10	1-Jun-09	B0402-0010	1		New Item
11	1-Jun-09	B0402-0011	1		New Item
12	1-Jun-09	B0402-0012	1		New Item
13	1-Jun-09	B0402-0013	1		New Item
14	1-Jun-09	B0402-0014	1		New Item
15	1-Jun-09	B0402-0015	1		New Item
16	1-Jun-09	B0402-0016	1		New Item
17	1-Jun-09	B0402-0017	1		New Item
18	1-Jun-09	B0402-0018	1		New Item
19	1-Jun-09	B0402-0019	1		New Item
20	1-Jun-09	B0402-0020	1		New Item
21	1-Jun-09	B0402-0021	1		New Item
22	1-Jun-09	B0402-0022	1		New Item
23	1-Jun-09	B0402-0023	1		New Item
24	1-Jun-09	B0402-0024	1		New Item
25	1-Jun-09	B0402-0025	1		New Item
26	1-Jun-09	B0402-0026	1		New Item
27	1-Jun-09	B0402-0027	1		New Item
28	1-Jun-09	B0402-0028	1		New Item
29	1-Jun-09	B0402-0029	1		New Item
30	1-Jun-09	B0402-0030	1		New Item
31	1-Jun-09	B0402-0031	1		New Item
32	1-Jun-09	B0402-0032	1		New Item
33	1-Jun-09	B0402-0033	1		New Item
34	1-Jun-09	B0402-0034	1		New Item
35	1-Jun-09	B0402-0035	1		New Item
36	1-Jun-09	B0402-0036	1		New Item
37	1-Jun-09	B0402-0037	1		New Item
38	1-Jun-09	B0402-0038	1		New Item
39	1-Jun-09	B0402-0039	1		New Item
40	1-Jun-09	B0402-0040	1		New Item
41	1-Jun-09	B0402-0041	1		New Item
42	1-Jun-09	B0402-0042	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
43	1-Jun-09	B0402-0043	1		New Item
44	1-Jun-09	B0402-0044	1		New Item
45	1-Jun-09	B0402-0045	1		New Item
46	1-Jun-09	B0402-0046	1		New Item
47	1-Jun-09	B0402-0047	1		New Item
48	1-Jun-09	B0402-0048	1		New Item
49	1-Jun-09	B0402-0049	1		New Item
50	1-Jun-09	B0402-0050	1		New Item
51	1-Jun-09	B0402-0051	1		New Item
52	1-Jun-09	B0402-0052	1		New Item
53	1-Jun-09	B0402-0053	1		New Item
54	1-Jun-09	B0402-0054	1		New Item
55	1-Jun-09	B0402-0055	1		New Item
56	1-Jun-09	B0402-0056	1		New Item
57	1-Jun-09	B0402-0057	1		New Item
58	1-Jun-09	B0402-0058	1		New Item
59	1-Jun-09	B0402-0059	1		New Item
60	1-Jun-09	B0402-0060	1		New Item
61	1-Jun-09	B0402-0061	1		New Item
62	1-Jun-09	B0402-0062	1		New Item
63	1-Jun-09	B0402-0063	1		New Item
64	1-Jun-09	B0402-0064	1		New Item
65	1-Jun-09	B0402-0065	1		New Item
66	1-Jun-09	B0402-0066	1		New Item
67	1-Jun-09	B0402-0067	1		New Item
68	1-Jun-09	B0402-0068	1		New Item
69	1-Jun-09	B0402-0069	1		New Item
70	1-Jun-09	B0402-0070	1		New Item
71	1-Jun-09	B0402-0071	1		New Item
72	1-Jun-09	B0402-0072	1		New Item
73	1-Jun-09	B0402-0073	1		New Item
74	1-Jun-09	B0402-0074	1		New Item
75	1-Jun-09	B0402-0075	1		New Item
76	1-Jun-09	B0402-0076	1		New Item
77	1-Jun-09	B0402-0077	1		New Item
78	1-Jun-09	B0402-0078	1		New Item
79	1-Jun-09	B0402-0079	1		New Item
80	1-Jun-09	B0402-0080	1		New Item
81	1-Jun-09	B0402-0081	1		New Item
82	1-Jun-09	B0402-0082	1		New Item
83	1-Jun-09	B0402-0083	1		New Item
84	1-Jun-09	B0402-0084	1		New Item
85	1-Jun-09	B0402-0085	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
86	1-Jun-09	B0402-0086	1		New Item
87	1-Jun-09	B0402-0087	1		New Item
88	1-Jun-09	B0402-0088	1		New Item
89	1-Jun-09	B0402-0089	1		New Item
90	1-Jun-09	B0402-0090	1		New Item
91	1-Jun-09	B0402-0091	1		New Item
92	1-Jun-09	B0402-0092	1		New Item
93	1-Jun-09	B0402-0093	1		New Item
94	1-Jun-09	B0402-0094	1		New Item
95	1-Jun-09	B0402-0095	1		New Item
96	1-Jun-09	B0402-0096	1		New Item
97	1-Jun-09	B0402-0097	1		New Item
98	1-Jun-09	B0402-0098	1		New Item
99	1-Jun-09	B0402-0099	1		New Item
100	1-Jun-09	B0402-0100	1		New Item
101	1-Jun-09	B0402-0101	1		New Item
102	1-Jun-09	B0402-0102	1		New Item
103	1-Jun-09	B0402-0103	1		New Item
104	1-Jun-09	B0402-0104	1		New Item
105	1-Jun-09	B0402-0105	1		New Item
106	1-Jun-09	B0402-0106	1		New Item
107	1-Jun-09	B0402-0107	1		New Item
108	1-Jun-09	B0402-0108	1		New Item
109	1-Jun-09	B0402-0109	1		New Item
110	1-Jun-09	B0402-0110	1		New Item
111	1-Jun-09	B0402-0111	1		New Item
112	1-Jun-09	B0402-0112	1		New Item
113	1-Jun-09	B0402-0113	1		New Item
114	1-Jun-09	B0402-0114	1		New Item
115	1-Jun-09	B0402-0115	1		New Item
116	1-Jun-09	B0402-0116	1		New Item
117	1-Jun-09	B0402-0117	1		New Item
118	1-Jun-09	B0402-0118	1		New Item
119	1-Jun-09	B0402-0119	1		New Item
120	1-Jun-09	B0402-0120	1		New Item
121	1-Jun-09	B0402-0121	1		New Item
122	1-Jun-09	B0402-0122	1		New Item
123	1-Jun-09	B0402-0123	1		New Item
124	1-Jun-09	B0402-0124	1		New Item
125	1-Jun-09	B0402-0125	1		New Item
126	1-Jun-09	B0402-0126	1		New Item
127	1-Jun-09	B0402-0127	1		New Item
128	1-Jun-09	B0402-0128	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
129	1-Jun-09	B0402-0129	1		New Item
130	1-Jun-09	B0402-0130	1		New Item
131	1-Jun-09	B0402-0131	1		New Item
132	1-Jun-09	B0402-0132	1		New Item
133	1-Jun-09	B0402-0133	1		New Item
134	1-Jun-09	B0402-0134	1		New Item
135	1-Jun-09	B0402-0135	1		New Item
136	1-Jun-09	B0402-0136	1		New Item
137	1-Jun-09	B0402-0137	1		New Item
138	1-Jun-09	B0402-0138	1		New Item
139	1-Jun-09	B0402-0139	1		New Item
140	1-Jun-09	B0402-0140	1		New Item
141	1-Jun-09	B0402-0141	1		New Item
142	1-Jun-09	B0402-0142	1		New Item
143	1-Jun-09	B0402-0143	1		New Item
144	1-Jun-09	B0402-0144	1		New Item
145	1-Jun-09	B0402-0145	1		New Item
146	1-Jun-09	B0402-0146	1		New Item
147	1-Jun-09	B0402-0147	1		New Item
148	1-Jun-09	B0402-0148	1		New Item
149	1-Jun-09	B0402-0149	1		New Item
150	1-Jun-09	B0402-0150	1		New Item
151	1-Jun-09	B0402-0151	1		New Item
152	1-Jun-09	B0402-0152	1		New Item
153	1-Jun-09	B0402-0153	1		New Item
154	1-Jun-09	B0402-0154	1		New Item
155	1-Jun-09	B0402-0155	1		New Item
156	1-Jun-09	B0402-0156	1		New Item
157	1-Jun-09	B0402-0157	1		New Item
158	1-Jun-09	B0402-0158	1		New Item
159	1-Jun-09	B0402-0159	1		New Item
160	1-Jun-09	B0402-0160	1		New Item
161	1-Jun-09	B0402-0161	1		New Item
162	1-Jun-09	B0402-0162	1		New Item
163	1-Jun-09	B0402-0163	1		New Item
164	1-Jun-09	B0402-0164	1		New Item
165	1-Jun-09	B0402-0165	1		New Item
166	1-Jun-09	B0402-0166	1		New Item
167	1-Jun-09	B0402-0167	1		New Item
168	1-Jun-09	B0402-0168	1		New Item
169	1-Jun-09	B0402-0169	1		New Item
170	1-Jun-09	B0402-0170	1		New Item
171	1-Jun-09	B0402-0171	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
172	1-Jun-09	B0402-0172	1		New Item
173	1-Jun-09	B0402-0173	1		New Item
174	1-Jun-09	B0402-0174	1		New Item
175	1-Jun-09	B0402-0175	1		New Item
176	1-Jun-09	B0402-0176	1		New Item
177	1-Jun-09	B0402-0177	1		New Item
178	1-Jun-09	B0402-0178	1		New Item
179	1-Jun-09	B0402-0179	1		New Item
180	1-Jun-09	B0402-0180	1		New Item
181	1-Jun-09	B0402-0181	1		New Item
182	1-Jun-09	B0402-0182	1		New Item
183	1-Jun-09	B0402-0183	1		New Item
184	1-Jun-09	B0402-0184	1		New Item
185	1-Jun-09	B0402-0185	1		New Item
186	1-Jun-09	B0402-0186	1		New Item
187	1-Jun-09	B0402-0187	1		New Item
188	1-Jun-09	B0402-0188	1		New Item
189	1-Jun-09	B0402-0189	1		New Item
190	1-Jun-09	B0402-0190	1		New Item
191	1-Jun-09	B0402-0191	1		New Item
192	1-Jun-09	B0402-0192	1		New Item
193	1-Jun-09	B0402-0193	1		New Item
194	1-Jun-09	B0402-0194	1		New Item
195	1-Jun-09	B0402-0195	1		New Item
196	1-Jun-09	B0402-0196	1		New Item
197	1-Jun-09	B0402-0197	1		New Item
198	1-Jun-09	B0402-0198	1		New Item
199	1-Jun-09	B0402-0199	1		New Item
200	1-Jun-09	B0402-0200	1		New Item
201	1-Jun-09	B0402-0201	1		New Item
202	1-Jun-09	B0402-0202	1		New Item
203	1-Jun-09	B0402-0203	1		New Item
204	1-Jun-09	B0402-0204	1		New Item
205	1-Jun-09	B0402-0205	1		New Item
206	1-Jun-09	B0402-0206	1		New Item
207	1-Jun-09	B0402-0207	1		New Item
208	1-Jun-09	B0402-0208	1		New Item
209	1-Jun-09	B0402-0209	1		New Item
210	1-Jun-09	B0402-0210	1		New Item
211	1-Jun-09	B0402-0211	1		New Item
212	1-Jun-09	B0402-0212	1		New Item
213	1-Jun-09	B0402-0213	1		New Item
214	1-Jun-09	B0402-0214	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
215	1-Jun-09	B0402-0215	1		New Item
216	1-Jun-09	B0402-0216	1		New Item
217	1-Jun-09	B0402-0217	1		New Item
218	1-Jun-09	B0402-0218	1		New Item
219	1-Jun-09	B0402-0219	1		New Item
220	1-Jun-09	B0402-0220	1		New Item
221	1-Jun-09	B0402-0221	1		New Item
222	1-Jun-09	B0402-0222	1		New Item
223	1-Jun-09	B0402-0223	1		New Item
224	1-Jun-09	B0402-0224	1		New Item
225	1-Jun-09	B0402-0225	1		New Item
226	1-Jun-09	B0402-0226	1		New Item
227	1-Jun-09	B0402-0227	1		New Item
228	1-Jun-09	B0402-0228	1		New Item
229	1-Jun-09	B0402-0229	1		New Item
230	1-Jun-09	B0402-0230	1		New Item
231	1-Jun-09	B0402-0231	1		New Item
232	1-Jun-09	B0402-0232	1		New Item
233	1-Jun-09	B0402-0233	1		New Item
234	1-Jun-09	B0402-0234	1		New Item
235	1-Jun-09	B0402-0235	1		New Item
236	1-Jun-09	B0402-0236	1		New Item
237	1-Jun-09	B0402-0237	1		New Item
238	1-Jun-09	B0402-0238	1		New Item
239	1-Jun-09	B0402-0239	1		New Item
240	1-Jun-09	B0402-0240	1		New Item
241	1-Jun-09	B0402-0241	1		New Item
242	1-Jun-09	B0402-0242	1		New Item
243	1-Jun-09	B0402-0243	1		New Item
244	1-Dec-09	B0402-0244	1		New Item
245	1-Dec-09	B0402-0245	1		New Item
246	1-Dec-09	B0402-0246	1		New Item
247	1-Dec-09	B0402-0247	1		New Item
248	1-Nov-09	B0402-0248	1		New Item
249	1-Nov-09	B0402-0249	1		New Item
250	1-Nov-09	B0402-0250	1		New Item
251	1-Dec-09	B0402-0251	1		New Item
252	1-Dec-09	B0402-0252	1		New Item
253	1-Nov-09	B0402-0253	1		New Item
254	1-Jun-09	B0502-0254	1		New Item
255	1-Jun-09	B0402-0255	1		New Item
256	1-Jun-09	B0402-0256	1		New Item
257	1-Jun-09	B0402-0257	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
258	1-Jun-09	B0402-0258	1		New Item
259	1-Jun-09	B0402-0259	1		New Item
260	1-Jun-09	B0402-0260	1		New Item
261	1-Jun-09	B0402-0261	1		New Item
262	1-Jun-09	B0402-0262	1		New Item
263	1-Jun-09	B0402-0263	1		New Item
264	1-Jun-09	B0602-0264	1		New Item
265	1-Jun-09	B0402-0265	1		New Item
266	1-Jun-09	B0402-0266	1		New Item
267	1-Jun-09	B0402-0267	1		New Item
268	1-Jun-09	B0602-0268	1		New Item
269	1-Jun-09	B0402-0269	1		New Item
270	1-Jun-09	B0502-0270	1		New Item
271	1-Jun-09	B0402-0271	12		New Item
272	1-Jun-09	B0402-0272	2		New Item
273	1-Jun-09	B0702-0273	2		New Item
274	1-Jun-09	B0702-0274	1		New Item
275	1-Jun-09	B0702-0275	1		New Item
276	1-Jun-09	B0702-0276	1		New Item
277	1-Jun-09	B0702-0277	1		New Item
278	1-Jun-09	B0702-0278	1		New Item
279	1-Jun-09	B0702-0279	1		New Item
280	1-Jun-09	B0702-0280	1		New Item
281	1-Jun-09	B0702-0281	1		New Item
282	1-Jun-09	B0702-0282	1		New Item
283	1-Jun-09	B0702-0283	1		New Item
284	1-Jun-09	B0702-0284	1		New Item
285	1-Jun-09	B0702-0285	1		New Item
286	1-Jun-09	B0702-0286	1		New Item
287	1-Jun-09	B0702-0287	1		New Item
288	1-Jun-09	B0702-0288	1		New Item
289	1-Jun-09	B0702-0289	1		New Item
290	1-Jun-09	B0702-0290	1		New Item
291	1-Jun-09	B0702-0291	1		New Item
292	1-Jun-09	B0702-0292	1		New Item
293	1-Feb-09	B0701-0293	1		New Item
294	1-Jun-09	B0502-0294	1		New Item
295	1-Nov-08	B0402-0295	1		New Item
296	1-Nov-08	B0402-0296	1		New Item
297	1-Jul-09	B0402-0297	1		New Item
298	1-Jul-09	B0402-0298	1		New Item
299	1-Jul-09	B0402-0299	1		New Item
300	1-Jul-09	B0402-0300	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
301	1-Jun-09	B0402-0301	1		New Item
302	1-Feb-09	B0501-0302	1		New Item
303	1-Feb-09	B0501-0303	1		New Item
304	1-Feb-09	B0501-0304	1		New Item
305	1-Feb-09	B0501-0305	1		New Item
306	1-Feb-09	B0501-0306	1		New Item
307	1-Feb-09	B0501-0307	1		New Item
308	1-Feb-09	B0701-0308	1		New Item
309	1-Feb-09	B0701-0309	1		New Item
310	1-Feb-09	B0401-0310	1		New Item
311	1-Feb-09	B0401-0311	1		New Item
312	1-Feb-09	B0601-0312	1		New Item
313	1-Feb-09	B0601-0313	1		New Item
314	1-Feb-09	B0501-0314	1		New Item
315	1-May-09	B0501-0315	1		New Item
316	1-May-09	B0701-0316	1		New Item
317	1-Nov-08	B0501-0317	1		New Item
318	1-Nov-08	B0601-0318	1		New Item
319	1-May-09	B0501-0319	4		New Item
320	1-Oct-09	B0601-0320	1		New Item
321	1-Jun-09	B0702-0321	53		New Item
322	1-Jun-09	B0702-0322	50		New Item
323	1-Jun-09	B0702-0323	1		New Item
324	1-Jun-09	B0402-0324	2		New Item
325	1-Jun-09	B0402-0325	2		New Item
326	1-Jun-09	B0402-0326	2		New Item
327	1-Jun-09	B0402-0327	7		New Item
328	1-Jun-09	B0402-0328	3		New Item
329	1-Jun-09	B0402-0329	2		New Item
330	1-Jun-09	B0402-0330	40		New Item
331	1-Jun-09	B0402-0331	9		New Item
332	1-Jun-09	B0402-0332	39		New Item
333	1-Jun-09	B0402-0333	11		New Item
334	1-Jun-09	B0402-0334	12		New Item
335	1-Jun-09	B0402-0335	6		New Item
336	1-Jun-09	B0402-0336	4		New Item
337	1-Jun-09	B0402-0337	2		New Item
338	1-Jun-09	B0402-0338	2		New Item
339	1-Jun-09	B0402-0339	4		New Item
340	1-Jun-09	B0402-0340	1		New Item
341	1-Jun-09	B0402-0341	6		New Item
342	1-Jun-09	B0402-0342	1		New Item
343	1-Jun-09	B0402-0343	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
344	1-Jun-09	B0402-0344	1		New Item
345	1-Jun-09	B0402-0345	1		New Item
346	1-Jun-09	B0402-0346	1		New Item
347	1-Jun-09	B0402-0347	1		New Item
348	1-Jun-09	B0402-0348	1		New Item
349	1-Jun-09	B0402-0349	1		New Item
350	1-Jun-09	B0402-0350	1		New Item
351	1-Jun-09	B0402-0351	1		New Item
352	1-Jun-09	B0402-0352	4		New Item
353	1-Jun-09	B0402-0353	4		New Item
354	1-Jun-09	B0402-0354	4		New Item
355	1-Jun-09	B0402-0355	1		New Item
356	1-Jun-09	B0402-0356	1		New Item
357	1-Jun-09	B0402-0357	1		New Item
358	1-Jun-09	B0402-0358	1		New Item
359	1-Jun-09	B0502-0359	1		New Item
360	1-Jun-09	B0502-0360	1		New Item
361	1-Jun-09	B0502-0361	1		New Item
362	1-Jun-09	B0502-0362	1		New Item
363	1-Jun-09	B0502-0363	1		New Item
364	1-Jun-09	B0502-0364	1		New Item
365	1-Jun-09	B0502-0365	1		New Item
366	1-Jun-09	B0502-0366	1		New Item
367	1-Jun-09	B0502-0367	1		New Item
368	1-Jun-09	B0502-0368	1		New Item
369	1-Jun-09	B0502-0369	1		New Item
370	1-Jun-09	B0502-0370	1		New Item
371	1-Jun-09	B0502-0371	1		New Item
372	1-Jun-09	B0502-0372	1		New Item
373	1-Jun-09	B0502-0373	1		New Item
374	1-Jun-09	B0502-0374	1		New Item
375	1-Jun-09	B0502-0375	1		New Item
376	1-Jun-09	B0502-0376	1		New Item
377	1-Jun-09	B0502-0377	1		New Item
378	1-Jun-09	B0502-0378	1		New Item
379	1-Jun-09	B0502-0379	1		New Item
380	1-Jun-09	B0502-0380	1		New Item
381	1-Jun-09	B0502-0381	1		New Item
382	1-Jun-09	B0502-0382	1		New Item
383	1-Jun-09	B0502-0383	1		New Item
384	1-Jun-09	B0502-0384	1		New Item
385	1-Jun-09	B0502-0385	1		New Item
386	1-Jun-09	B0502-0386	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
387	1-Jun-09	B0502-0387	1		New Item
388	1-Jun-09	B0502-0388	1		New Item
389	1-Jun-09	B0502-0389	1		New Item
390	1-Jun-09	B0502-0390	1		New Item
391	1-Jun-09	B0502-0391	1		New Item
392	1-Jun-09	B0502-0392	1		New Item
393	1-Jun-09	B0502-0393	1		New Item
394	1-Jun-09	B0502-0394	1		New Item
395	1-Jun-09	B0502-0395	1		New Item
396	1-Jun-09	B0502-0396	1		New Item
397	1-Jun-09	B0502-0397	1		New Item
398	1-Jun-09	B0502-0398	1		New Item
399	1-Jun-09	B0402-0399	8		New Item
400	1-Jun-09	B0502-0400	23		New Item
401	1-Jun-09	B0502-0401	30		New Item
402	1-Jun-09	B0402-0402	66		New Item
403	1-Jun-09	B0402-0403	4		New Item
404	1-Jun-09	B0402-0404	1		New Item
405	1-Jun-09	B0402-0405	1		New Item
406	1-Jun-09	B0502-0406	1		New Item
407	1-Jun-09	B0502-0407	1		New Item
408	1-Jun-09	B0702-0408	1		New Item
409	1-Jun-09	B0402-0409	280		New Item
410	1-Jun-09	B0402-0410	225		New Item
411	1-Jun-09	B0402-0411	217		New Item
412	1-Jun-09	B0402-0412	1		New Item
413	1-Jun-09	B0402-0413	1		New Item
414	1-Jun-09	B0402-0414	1		New Item
415	1-Jun-09	B0402-0415	1		New Item
416	1-Jun-09	B0602-0416	1		New Item
417	1-Jun-09	B0402-0417	1		New Item
418	1-Jun-09	B0402-0418	1		New Item
419	1-Jun-09	B0502-0419	1		New Item
420	1-Jun-09	B0402-0420	300		New Item
421	1-Jun-09	B0402-0421	1		New Item
422	1-Jun-09	B0402-0422	1		New Item
423	1-Jan-08	B0403-0423	1		New Item
424	1-Oct-09	B0403-0424	1		New Item
425	1-Oct-09	B0403-0425	1		New Item
426	1-Oct-09	B0403-0426	1		New Item
427	1-Jun-08	B0403-0427	1		New Item
428	1-Jun-08	B0403-0428	1		New Item
429	1-Jun-08	B0403-0429	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
430	1-Oct-09	B0403-0430	1		New Item
431	1-Oct-09	B0403-0431	1		New Item
432	1-Jun-08	B0403-0432	1		New Item
433	1-Jun-08	B0403-0433	1		New Item
434	1-Oct-09	B0403-0434	1		New Item
435	1-Jun-08	B0403-0435	1		New Item
436	1-Jun-08	B0403-0436	1		New Item
437	1-Oct-09	B0403-0437	1		New Item
438	1-Oct-09	B0403-0438	1		New Item
439	1-Oct-09	B0403-0439	1		New Item
440	1-Oct-09	B0403-0440	1		New Item
441	1-Oct-09	B0403-0441	1		New Item
442	1-Oct-09	B0403-0442	1		New Item
443	1-Oct-09	B0403-0443	1		New Item
444	1-Oct-09	B0403-0444	1		New Item
445	1-Oct-09	B0403-0445	1		New Item
446	1-Jun-08	B0403-0446	1		New Item
447	1-Jun-08	B0403-0447	1		New Item
448	1-Oct-09	B0403-0448	1		New Item
449	1-Oct-09	B0403-0449	1		New Item
450	1-Oct-09	B0403-0450	1		New Item
451	1-Jun-08	B0403-0451	1		New Item
452	1-Jun-08	B0403-0452	1		New Item
453	1-Jan-10	B0403-0453	1		New Item
454	1-Jan-10	B0403-0454	1		New Item
455	1-Jan-10	B0403-0455	1		New Item
456	1-Jan-10	B0403-0456	1		New Item
457	1-Jan-10	B0403-0457	1		New Item
458	1-Jan-10	B0403-0458	1		New Item
459	1-Jan-10	B0403-0459	1		New Item
460	1-Jan-10	B0403-0460	1		New Item
461	1-Jan-10	B0403-0461	1		New Item
462	1-Jan-10	B0403-0462	1		New Item
463	1-Jan-10	B0403-0463	1		New Item
464	1-Jan-10	B0403-0464	1		New Item
465	1-Jan-10	B0403-0465	1		New Item
466	1-Jun-08	A0503-0466	1		New Item
467	1-Feb-09	A0503-0467	1		New Item
468	1-Feb-09	A0503-0468	1		New Item
469	1-Feb-09	A0503-0469	1		New Item
470	1-Feb-09	A0503-0470	1		New Item
471	1-Feb-09	A0503-0471	1		New Item
472	1-Feb-09	A0503-0472	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
473	1-Feb-09	A0503-0473	1		New Item
474	1-Feb-09	A0503-0474	1		New Item
475	1-Feb-09	A0503-0475	1		New Item
476	1-Feb-09	A0503-0476	1		New Item
477	1-Feb-09	A0503-0477	1		New Item
478	1-Feb-09	A0503-0478	1		New Item
479	1-Feb-09	A0503-0479	1		New Item
480	1-Feb-09	A0503-0480	1		New Item
481	1-Feb-09	A0503-0481	1		New Item
482	1-Oct-09	A0804-0482	1		New Item
483	1-Oct-09	A0804-0483	1		New Item
484	1-Oct-09	A0804-0484	1		New Item
485	1-Oct-09	A0804-0485	1		New Item
486	1-Oct-09	A0804-0486	1		New Item
487	1-Oct-09	A0804-0487	1		New Item
488	1-Oct-09	A0804-0488	1		New Item
489	1-Jan-10	A0804-0489	1		New Item
490	Jan/2010	A0804-0490	1		New Item
491	Jan/2010	A0804-0491	1		New Item
492	1-Jan-10	B0403-0492	1		New Item
493	Jan/2010	A0804-0493	1		New Item
494	Jan/2010	A0804-0494	1		New Item
495	Jan/2010	A0804-0495	1		New Item
496	Jan/2010	A0804-0496	1		New Item
497	Jan/2010	A0804-0497	1		New Item
498	Jan/2010	A0804-0498	1		New Item
499	Jan/2010	A0804-0499	1		New Item
500	Jan/2010	A0804-0500	1		New Item
501	Jan/2010	A0804-0501	1		New Item
502	1-Oct-09	A0804-0502	1		New Item
503	1-Oct-09	A0804-0503	1		New Item
504	1-Oct-09	A0804-0504	1		New Item
505	1-Oct-09	A0804-0505	1		New Item
506	1-Oct-09	A0804-0506	1		New Item
507	1-Oct-09	A0804-0507	1		New Item
508	1-Jan-10	A0804-0508	1		New Item
509	1-Jan-10	A0804-0509	1		New Item
510	1-Oct-09	A0804-0510	1		New Item
511	1-Oct-09	A0804-0511	1		New Item
512	1-Oct-09	A0804-0512	1		New Item
513	1-Oct-09	A0804-0513	1		New Item
514	1-Oct-09	A0804-0514	1		New Item
515	1-Oct-09	A0804-0515	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
516	1-Oct-09	A0804-0516	1		New Item
517	1-Oct-09	A0804-0517	1		New Item
518	1-Oct-09	A0804-0518	1		New Item
519	1-Oct-09	A0804-0519	1		New Item
520	1-Oct-09	A0804-0520	1		New Item
521	1-Jan-10	A0804-0521	1		New Item
522	1-Jan-10	A0804-0522	2		New Item
523	1-Jan-10	A0804-0523	6		New Item
524	1-Jan-10	A0804-0524	6		New Item
525	1-Jan-10	A0804-0525	6		New Item
526	1-Jan-10	A0804-0526	6		New Item
527	1-Jan-10	A0804-0527	1		New Item
528	1-Jan-10	A0804-0528	3		New Item
529	1-Oct-09	A0804-0529	1		New Item
530	1-Jun-08	A0706-0530	1		New Item
531	1-Jun-08	A0606-0531	1		New Item
532	1-Jan-09	A0206-0532	1		New Item
533	1-Jan-09	A0206-0533	1		New Item
534	1-Jan-09	A0206-0534	1		New Item
535	1-Jan-09	A0206-0535	1		New Item
536	1-Jan-09	A0206-0536	1		New Item
537	1-Jan-09	A0206-0537	1		New Item
538	1-Jan-09	A0206-0538	1		New Item
539	1-Jan-09	A0206-0539	1		New Item
540	1-Jan-09	A0206-0540	1		New Item
541	1-Jan-09	A0206-0541	1		New Item
542	1-Jan-09	A0206-0542	1		New Item
543	1-Jan-09	A0206-0543	1		New Item
544	1-Jan-09	A0206-0544	1		New Item
545	1-Jan-09	A0206-0545	1		New Item
546	1-Jan-09	A0206-0546	1		New Item
547	1-Jan-09	A0206-0547	1		New Item
548	1-Jan-09	A0206-0548	1		New Item
549	1-Jan-09	A0206-0549	1		New Item
550	1-Jan-09	A0206-0550	1		New Item
551	1-Jan-09	A0206-0551	1		New Item
552	1-Feb-09	A0106-0552	1		New Item
553	1-Feb-09	A0606-0553	1		New Item
554	1-Feb-09	A0806-0554	1		New Item
555	1-Jun-08	A0506-0555	1		New Item
556	1-Jan-09	A0506-0556	1		New Item
557	1-Jan-09	A0506-0557	1		New Item
558	1-Jan-09	A0506-0558	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
559	1-Jan-09	A0506-0559	1		New Item
560	1-Jan-09	A0506-0560	1		New Item
561	1-Jan-09	A0506-0561	1		New Item
562	1-Nov-08	A0506-0562	1		New Item
563	1-Jan-09	A0506-0563	1		New Item
564	1-Nov-08	A0706-0564	1		New Item
565	1-Feb-09	A0506-0565	1		New Item
566	1-Jun-08	A0506-0566	1		New Item
567	1-May-09	B0206-0567	1		New Item
568	1-May-09	A0406-0568	1		New Item
569	1-Jun-08	A0906-0569	1		New Item
570	1-May-09	B0206-0570	1		New Item
571	1-May-09	A0306-0571	1		New Item
572	1-Mar-09	A0206-0572	1		New Item
573	1-Mar-09	A0306-0573	1		New Item
574	1-Mar-09	A0406-0574	1		New Item
575	1-Mar-09	B0206-0575	1		New Item
576	1-Mar-09	A0706-0576	1		New Item
577	1-Nov-08	A0206-0577	1		New Item
578	1-Nov-08	A0206-0578	1		New Item
579	1-Nov-08	A0206-0579	1		New Item
580	1-Nov-08	A0206-0580	1		New Item
581	1-Nov-08	A0206-0581	1		New Item
582	1-Nov-08	A0206-0582	1		New Item
583	1-Nov-08	A0206-0583	1		New Item
584	1-Nov-08	A0206-0584	1		New Item
585	1-Nov-08	A0206-0585	1		New Item
586	1-Nov-08	A0206-0586	1		New Item
587	1-Jan-09	A0206-0587	1		New Item
588	1-Jan-09	A0206-0588	1		New Item
589	1-Jan-09	A0206-0589	1		New Item
590	1-Jan-09	A0206-0590	1		New Item
591	1-Jan-09	A0206-0591	1		New Item
592	1-Jan-09	A0206-0592	1		New Item
593	1-Jan-09	A0206-0593	1		New Item
594	1-Jan-09	A0206-0594	1		New Item
595	1-Jan-09	A0206-0595	1		New Item
596	1-Jan-09	A0206-0596	1		New Item
597	1-Jan-09	A0706-0597	1		New Item
598	1-Jan-09	A0706-0598	1		New Item
599	1-Mar-09	A0706-0599	1		New Item
600	1-Mar-09	A0706-0600	1		New Item
601	1-Mar-09	A0706-0601	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
602	1-Mar-09	A0706-0602	1		New Item
603	1-Apr-09	A0706-0603	1		New Item
604	1-Mar-09	A0706-0604	1		New Item
605	1-May-09	B0206-0605	1		New Item
606	1-May-09	A0106-0606	1		New Item
607	1-May-09	B0206-0607	1		New Item
608	1-Oct-09	A0506-0608	1		New Item
609	1-Oct-09	A0506-0609	1		New Item
610	1-Oct-09	B0106-0610	1		New Item
611	1-Oct-09	A0706-0611	1		New Item
612	1-Oct-09	A0706-0612	1		New Item
613	1-Oct-09	B0206-0613	1		New Item
614	1-May-09	A0506-0614	1		New Item
615	1-Jun-08	A0606-0615	1		New Item
616	1-Jun-08	A0706-0616	1		New Item
617	1-Mar-09	A0706-0617	1		New Item
618	1-Mar-09	A0206-0618	1		New Item
619	1-Mar-09	A0506-0619	1		New Item
620	1-Mar-09	A0206-0620	1		New Item
621	1-Mar-09	A0206-0621	1		New Item
622	1-Mar-09	A0206-0622	1		New Item
623	1-Mar-09	A0206-0623	1		New Item
624	1-Mar-09	A0206-0624	1		New Item
625	1-Mar-09	A0206-0625	1		New Item
626	1-Mar-09	A0706-0626	1		New Item
627	1-Mar-09	A0706-0627	1		New Item
628	1-Mar-09	B0106-0628	1		New Item
629	1-Mar-09	A0706-0629	1		New Item
630	1-Mar-09	A0806-0630	1		New Item
631	1-Oct-09	A0506-0631	1		New Item
632	1-Oct-09	A0506-0632	1		New Item
633	1-Oct-09	A0506-0633	1		New Item
634	1-Dec-09	B0402-0634	1		New Item
635	1-Dec-09	B0402-0635	1		New Item
636	1-May-09	B0106-0636	1		New Item
637	1-May-09	B0106-0637	1		New Item
638	1-May-09	B0106-0638	1		New Item
639	1-May-09	B0106-0639	1		New Item
640	1-May-09	B0106-0640	1		New Item
641	1-May-09	B0106-0641	1		New Item
642	1-May-09	B0106-0642	1		New Item
643	1-May-09	B0106-0643	1		New Item
644	1-May-09	B0106-0644	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
645	1-May-09	B0106-0645	1		New Item
646	1-May-09	B0106-0646	1		New Item
647	1-May-09	B0106-0647	1		New Item
648	1-May-09	B0106-0648	1		New Item
649	1-May-09	B0106-0649	1		New Item
650	1-May-09	B0106-0650	1		New Item
651	1-May-09	B0106-0651	1		New Item
652	1-May-09	B0106-0652	1		New Item
653	1-May-09	B0106-0653	1		New Item
654	1-May-09	A0706-0654	1		New Item
655	1-May-09	A0706-0655	1		New Item
656	1-May-09	A0506-0656	1		New Item
657	1-May-09	A0606-0657	1		New Item
658	1-May-09	B0106-0658	1		New Item
659	1-May-09	B0106-0659	1		New Item
660	1-May-09	B0106-0660	1		New Item
661	1-May-09	B0106-0661	1		New Item
662	1-May-09	B0206-0662	1		New Item
663	1-May-09	B0206-0663	1		New Item
664	1-May-09	B0206-0664	1		New Item
665	1-May-09	B0206-0665	1		New Item
666	1-May-09	B0206-0666	1		New Item
667	1-May-09	B0206-0667	1		New Item
668	1-May-09	B0206-0668	1		New Item
669	1-May-09	B0206-0669	1		New Item
670	1-May-09	B0206-0670	1		New Item
671	1-May-09	B0206-0671	1		New Item
672	1-May-09	B0206-0672	1		New Item
673	1-May-09	B0206-0673	1		New Item
674	1-May-09	B0206-0674	1		New Item
675	1-May-09	B0206-0675	1		New Item
676	1-May-09	B0206-0676	1		New Item
677	1-May-09	B0206-0677	1		New Item
678	1-May-09	B0206-0678	1		New Item
679	1-May-09	B0206-0679	1		New Item
680	1-May-09	B0206-0680	1		New Item
681	1-May-09	B0206-0681	1		New Item
682	1-May-09	B0206-0682	1		New Item
683	1-May-09	B0206-0683	1		New Item
684	1-May-09	B0206-0684	1		New Item
685	1-May-09	B0206-0685	1		New Item
686	1-May-09	B0206-0686	1		New Item
687	1-Dec-09	B0206-0687	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
688	1-Dec-09	B0206-0688	1		New Item
689	1-Dec-09	B0206-0689	1		New Item
690	1-Dec-09	B0206-0690	1		New Item
691	1-Dec-09	B0206-0691	1		New Item
692	1-Dec-09	B0206-0692	1		New Item
693	1-Dec-09	B0306-0693	1		New Item
694	1-Dec-09	B0306-0694	1		New Item
695	1-Dec-09	B0306-0695	1		New Item
696	1-Dec-09	B0306-0696	1		New Item
697	1-Dec-09	B0306-0697	1		New Item
698	1-Dec-09	B0306-0698	1		New Item
699	1-Dec-09	B0306-0699	1		New Item
700	1-Dec-09	B0306-0700	1		New Item
701	1-Dec-09	B0306-0701	1		New Item
702	1-Dec-09	B0306-0702	1		New Item
703	1-Dec-09	B0306-0703	1		New Item
704	1-Dec-09	B0306-0704	1		New Item
705	1-Dec-09	B0306-0705	1		New Item
706	1-Dec-09	B0306-0706	1		New Item
707	1-Dec-09	B0306-0707	1		New Item
708	1-Dec-09	B0306-0708	1		New Item
709	1-May-09	B0106-0709	1		New Item
710	1-May-09	B0106-0710	1		New Item
711	1-May-09	B0106-0711	1		New Item
712	1-May-09	B0206-0712	1		New Item
713	1-May-09	B0306-0713	1		New Item
714	1-May-09	B0506-0714	1		New Item
715	1-Oct-09	A0806-0715	1		New Item
716	1-Oct-09	A0806-0716	1		New Item
717	1-Oct-09	A0806-0717	1		New Item
718	1-Oct-09	A0806-0718	1		New Item
719	1-Oct-09	A0806-0719	1		New Item
720	1-Oct-09	A0806-0720	1		New Item
721	1-Oct-09	A0806-0721	1		New Item
722	1-Oct-09	A0806-0722	1		New Item
723	1-Oct-09	A0806-0723	1		New Item
724	1-Oct-09	A0806-0724	1		New Item
725	1-Oct-09	A0806-0725	1		New Item
726	1-Oct-09	A0806-0726	1		New Item
727	1-Oct-09	A0806-0727	1		New Item
728	1-Oct-09	A0806-0728	1		New Item
729	1-Oct-09	A0806-0729	1		New Item
730	1-Oct-09	A0806-0730	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
731	1-Oct-09	A0806-0731	1		New Item
732	1-Oct-09	A0806-0732	1		New Item
733	1-Oct-09	A0806-0733	1		New Item
734	1-Oct-09	A0806-0734	1		New Item
735	1-Oct-09	A0806-0735	1		New Item
736	1-Oct-09	A0806-0736	1		New Item
737	1-Oct-09	A0806-0737	1		New Item
738	1-Oct-09	A0806-0738	1		New Item
739	1-Oct-09	A0806-0739	1		New Item
740	1-Oct-09	A0806-0740	1		New Item
741	1-Oct-09	A0806-0741	1		New Item
742	1-Oct-09	A0806-0742	1		New Item
743	1-Oct-09	A0806-0743	1		New Item
744	1-Oct-09	A0806-0744	1		New Item
745	1-Oct-09	A0806-0745	1		New Item
746	1-Oct-09	A0806-0746	1		New Item
747	1-Oct-09	A0806-0747	1		New Item
748	1-Oct-09	A0806-0748	1		New Item
749	1-Oct-09	A0806-0749	1		New Item
750	1-Oct-09	A0806-0750	1		New Item
751	1-Oct-09	A0806-0751	1		New Item
752	1-Oct-09	A0806-0752	1		New Item
753	1-Oct-09	A0806-0753	1		New Item
754	1-Oct-09	A0806-0754	1		New Item
755	1-Oct-09	A0806-0755	1		New Item
756	1-Oct-09	A0806-0756	1		New Item
757	1-Oct-09	A0806-0757	1		New Item
758	1-Oct-09	A0806-0758	1		New Item
759	1-Oct-09	A0806-0759	1		New Item
760	1-Oct-09	A0806-0760	1		New Item
761	1-Oct-09	A0806-0761	1		New Item
762	1-Oct-09	A0806-0762	1		New Item
763	1-Oct-09	A0806-0763	1		New Item
764	1-Oct-09	A0806-0764	1		New Item
765	1-Oct-09	A0806-0765	1		New Item
766	1-Oct-09	A0806-0766	1		New Item
767	1-Oct-09	A0806-0767	1		New Item
768	1-Oct-09	A0806-0768	1		New Item
769	1-Oct-09	A0806-0769	1		New Item
770	1-Oct-09	A0806-0770	1		New Item
771	1-Oct-09	A0806-0771	1		New Item
772	1-Jan-10	A0806-0772	1		New Item
773	1-May-09	B0106-0773	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
774	1-May-09	B0106-0774	1		New Item
775	1-May-09	B0306-0775	1		New Item
776	1-May-09	A0706-0776	1		New Item
777	1-May-09	A0706-0777	1		New Item
778	1-May-09	A0706-0778	1		New Item
779	1-May-09	B0406-0779	1		New Item
780	1-May-09	B0406-0780	1		New Item
781	1-May-09	B0406-0781	1		New Item
782	1-May-09	B0406-0782	1		New Item
783	1-May-09	A0506-0783	1		New Item
784	1-May-09	B0106-0784	1		New Item
785	1-May-09	B0506-0785	1		New Item
786	1-May-09	B0506-0786	1		New Item
787	1-May-09	B0506-0787	1		New Item
788	1-May-09	B0406-0788	1		New Item
789	1-May-09	B0506-0789	1		New Item
790	1-May-09	B0506-0790	1		New Item
791	1-May-09	B0506-0791	1		New Item
792	1-May-09	B0306-0792	1		New Item
793	1-May-09	B0106-0793	1		New Item
794	1-Jan-10	B0505-0794	1		New Item
795	1-Jan-10	B0505-0795	1		New Item
796	1-Jan-10	B0505-0796	1		New Item
797	1-Jan-10	B0505-0797	1		New Item
798	1-Jan-10	B0505-0798	1		New Item
799	1-Jan-10	B0505-0799	1		New Item
800	1-Jan-10	B0505-0800	1		New Item
801	1-Jan-10	B0505-0801	1		New Item
802	1-Jan-10	B0505-0802	1		New Item
803	1-May-09	A0707-0803	1		New Item
804	1-May-09	A0707-0804	1		New Item
805	1-May-09	A0707-0805	1		New Item
806	1-May-09	A0707-0806	1		New Item
807	1-May-09	A0707-0807	1		New Item
808	1-May-09	A0707-0808	1		New Item
809	1-May-09	A0707-0809	1		New Item
810	1-May-09	A0707-0810	1		New Item
811	1-May-09	A0707-0811	1		New Item
812	1-May-09	A0707-0812	1		New Item
813	1-May-09	A0707-0813	1		New Item
814	1-May-09	A0707-0814	1		New Item
815	1-May-09	A0707-0815	1		New Item
816	1-May-09	A0707-0816	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
817	1-May-09	A0707-0817	1		New Item
818	1-May-09	A0707-0818	1		New Item
819	1-May-09	A0707-0819	1		New Item
820	1-May-09	A0707-0820	1		New Item
821	1-May-09	A0707-0821	1		New Item
822	1-May-09	A0707-0822	1		New Item
823	1-May-09	A0707-0823	1		New Item
824	1-May-09	A0707-0824	1		New Item
825	1-May-09	A0707-0825	1		New Item
826	1-May-09	A0707-0826	1		New Item
827	1-May-10	A0707-0827	1		New Item
828	1-May-10	A0707-0828	1		New Item
829	1-May-10	A0707-0829	1		New Item
830	1-May-10	A0707-0830	1		New Item
831	1-May-10	A0707-0831	1		New Item
832	1-May-10	A0707-0832	1		New Item
833	1-May-10	A0707-0833	1		New Item
834	1-May-10	A0707-0834	1		New Item
835	1-May-10	A0707-0835	1		New Item
836	1-May-10	A0707-0836	1		New Item
837	1-May-10	A0707-0837	1		New Item
838	1-May-10	A0707-0838	1		New Item
839	1-May-10	A0707-0839	1		New Item
840	1-May-10	A0707-0840	1		New Item
841	1-May-10	A0707-0841	1		New Item
842	1-May-10	A0707-0842	1		New Item
843	1-May-10	A0707-0843	1		New Item
844	14-Feb-10	B0402-0844	1		New Item
845	14-Feb-10	B0402-0845	1		New Item
846	14-Feb-10	B0402-0846	1		New Item
847	14-Feb-10	B0402-0847	1		New Item
848	14-Feb-10	B0402-0848	1		New Item
849	14-Feb-10	B0402-0849	1		New Item
850	14-Feb-10	B0402-0850	1		New Item
851	14-Feb-10	B0402-0851	1		New Item
852	14-Feb-10	B0402-0852	1		New Item
853	14-Feb-10	B0402-0853	1		New Item
854	14-Feb-10	B0402-0854	1		New Item
855	14-Feb-10	B0402-0855	1		New Item
856	14-Feb-10	B0402-0856	1		New Item
857	14-Feb-10	B0402-0857	1		New Item
858	14-Feb-10	B0402-0858	1		New Item
859	14-Feb-10	B0402-0859	1		New Item

Equipment Entry Sheet

No.	Date	EqtID	Entry	Exit	Remarks
860	14-Feb-10	B0402-0860	8		New Item
861	14-Feb-10	B0402-0861	8		New Item
862	14-Feb-10	B0402-0862	2		New Item
863	14-Feb-10	B0402-0863	3		New Item
864	14-Feb-10	B0402-0864	4		New Item
865	14-Feb-10	B0402-0865	2		New Item
866	14-Feb-10	B0402-0866	4		New Item
867	14-Feb-10	B0402-0867	5		New Item
868	14-Feb-10	B0402-0868	1		New Item
869	14-Feb-10	B0402-0869	3		New Item
870	14-Feb-10	B0402-0870	1		New Item
871	14-Feb-10	B0402-0871	1		New Item
872	14-Feb-10	B0402-0872	1		New Item
873	17-Feb-10	B0402-0873	2		New Item
874	22-Feb-10	B0106-0874	1		New Item
875	22-Feb-10	B0106-0875	1		New Item
876	22-Feb-10	B0106-0876	1		New Item
877	22-Feb-10	B0106-0877	1		New Item
878	22-Feb-10	B0106-0878	1		New Item
879	22-Feb-10	B0106-0879	1		New Item
880	22-Feb-10	B0106-0880	1		New Item
881	22-Feb-10	B0106-0881	1		New Item
882	22-Feb-10	B0106-0882	1		New Item
883	22-Feb-10	B0106-0883	1		New Item
884	22-Feb-10	B0106-0884	1		New Item
885	22-Feb-10	B0106-0885	1		New Item
886	22-Feb-10	B0106-0886	1		New Item
887	22-Feb-10	B0106-0887	1		New Item
888	22-Feb-10	B0106-0888	1		New Item
889	22-Feb-10	B0106-0889	1		New Item
890	22-Feb-10	B0106-0890	1		New Item
891	22-Feb-10	B0106-0891	1		New Item
892	22-Feb-10	B0106-0892	1		New Item
893	22-Feb-10	B0106-0893	1		New Item
894	22-Feb-10	B0106-0894	20		New Item
895	23-Feb-10	B0106-0895	20		New Item
896	23-Feb-10	B0106-0896	4		New Item
897	23-Feb-10	B0502-0897	1		New Item
898	23-Feb-10	B0502-0898	1		New Item
899	23-Feb-10	B0402-0899	1		New Item
900	23-Feb-10	B0402-0900	2		New Item
901	23-Feb-10	B0702-0901	1		New Item
902	23-Feb-10	B0402-0902	1		New Item

1.3. Photographic Inventory

1.3.1. List of Major Equipments

1.3.2. List of Tools

1.3.3. List of Testing and Survey Equipments

1.3.4. List of Water Quality Instruments

1.3.5. List of Display Model Sets

1.3.6. List of Office Equipments

1.3.7. List of Reference Books






1.3.1. List of Major Equipments

Inventory of Equipment in PWCT

01 List of Major Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
1	Tripod		1 unit	B070-0253	1-Feb-09			Steel, H=6m	Field	
2	Manual hydraulic scacker		1 unit	B050-0254	1-Jun-09	SCJ - 1000		RBR Capacity 1000 Kg Lifting height 1600 mm Weight 230 Kg 1600x740x1200 mm	Storage	
3	Electric motor		1 unit	B050-0302	1-Feb-09	Saer MT4-83-132M	2309457	3 phase induction motor, 7.5 kW	Storage	
4	Control panel		1 unit	B050-0303	1-Feb-09	----	----	Direct line start circuit : 10 HP	Storage	for training
5			1 unit	B050-0304	1-Feb-09	----	----	Star-delta start circuit :	Storage	for training

01 List of Major Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
6			1 unit	B050'-0305	1-Feb-09			Auto-trans start circuit	Storage	for training
7			1 unit	B050'-0306	1-Feb-09			Soft start circuit	Storage	
8	Control panel		1 unit	B050'-0307	1-Feb-09			Direct line start circuit 5.5 HP	Storage	for submersible pump (Brief)
9	Submersible pump		1 unit	B070'-0308	1-Feb-09	Brill BH-13S24	39267	4kW 2 inches	Field	
10	Vertical Motor		1 unit	B070'-0309	1-Feb-09	B3C-4T55		4kW, with 100m cable	Field	for submersible pump (Brief)

01 List of Major Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
11	Submersible pump		1 unit	B040-0310	1-Feb-09			0.37kw 9m3/h @ 5m-H including 2' hose x 100m. Power Cable x 50m, Switch Boxes	Tools Store	
12	Switch box			B040-0311	1-Feb-09				Tools Store	for submersible pump (SFM ISOK - 86)
13	Centrifugal Pump			B060-0312	1-Feb-09	Fbara ENR 3321530-		Spiral centrifugal pump 2.2kW, H=31m Q=21.4min, 380V, 3chase	Experimenta Room	
14	Pipes threading machine		1 unit	B060-0313	1-Feb-09	Atlas Z1T-4		gas van red, ASTM, AP pipes 1/2" - 4", 220V, 750W	Experimenta Room	
15	Welding machine		1 unit	B060-0314	1-Feb-09	SIL-IO BX1-500		100A/24V - 500A/10V 1~50 H7	Storage	Mask Electrode holder wire


01 List of Major Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
16			1 unit	B050-0315	1-May-05	S11-IO BX1-400		80A/23V - 400A/36V	Storage	
17	V notch we r		1 unit	B070-0316	1-May-05			- 1400, W-600, H-350mm	Field	
18	Air compressor		1 unit	B050-0317	1-Nov-08	XAS87DD FB AC I FG			Storage	Atlas Copco
19	Water Tank		1 unit	B060-0318	1 Nov 08			3Ltr plastic tank, 5m3	Experimenta Room	
20	Working Bench		4 units	B050-0319	1-May-05			2m x 4m x 0.8m	Storage	




1.3.2. List of Tools

Inventory of Equipment in PWCT

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
1	Two set in a aluminum case		2 sets	B0402-0001 B0402-0002	1 Jun-09 1 Jun-09				Tools Store	Detail content in the attached is:
2	Double glass wrench		2 set	B0402-0003 B0402-0004 B0402-0005 B0402-0006 B0402-0007	1 Jun-09 1 Jun-09 1 Jun-09 1 Jun-09 1 Jun-09	VIGEX		each one of 6x/ 8x9 10x11 12x13 14x15 15x17 18x19 20x22 21x23 26x28 27x29 30x32 mm (total of 12 pcs)	Tools Store	
3			1 set	B0402-0007 B0402-0008 B0402-0009 B0402-0030	1 Jun-09 1 Jun-09 1 Jun-09 1 Jun-09			each one of [6x]8, [70x]12, [14x]18, [20x]24 (total of 4 pcs)	Tools Store	
4	Spanner set		2 set	B0402-0003 B0402-0038 B0402-0039 B0402-0046	1 Jun-09 1 Jun-09 1 Jun-09 1 Jun-09			each one of 6x/ 6x8 10x12 12x13 14x17 17x19 19x21 22x24mm (total of 8 pcs)	Tools Store	
5			1 set	B0402-0047 B0402-0058	1 Jun-09 1 Jun-09	Sealey AK637		each one of 6x/ 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 26x28 30x32 mm (total of 12 pcs)	Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
6	Single glass wrench (combination wrench)		1 set	B0402-0059 B0402-0072	1 Jun-09 1 Jun-09	Sealey AK637		each one of 6, 7, 8, 9, 10, 11, 12, 13 14, 15, 16, 17, 18, 19mm (total of 14 pcs)	Tools Store	
7			2 pcs	B0402-0073 B0402-0074	1 Jun-09 1 Jun-09			16mm	Tools Store Tools Store	
8			2 pcs	B0402-0075 B0402-0076	1 Jun-09 1 Jun-09			15mm	Tools Store Tools Store	
9	6 arg e socket set		1 set	B0402-0077 B0402-0088	1 Jun-09 1 Jun-09	Sealey AK2693		each one of 3/8" Sq. 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm (total of 12 pcs)	Tools Store	
10	6 arg e socket		2 pcs	B0402-0089 B0402-0090	1 Jun-09 1 Jun-09			16mm	Tools Store Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
11	1/2" angle socket set		1 set	B0402-009 B0402-0109	1 Jun-09 1 Jun-09			each one of 3/8" Sq. 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm & 1/2" Sq. 19, 21, 22, 24, 27, 30, 32mm (total of 20 pcs)	Tools Store	
12	Ratchet Wrench		1 unit	B0402-0110	1 Jun-09	Sealey AK5762		3/8" Sq. 19mm	Tools Store	
13			2 units	B0402-0111 B0402-0112	1 Jun-09 1 Jun-09				Tools Store Tools Store	
14	Torque wrench		2 units	B0402-0113 B0402-0114	1 Jun-09 1 Jun-09			Dia. type 1/2" 2.8-20.7KGS	Tools Store Tools Store	
15			1 unit	B0402-0115	1 Jun-09	Sealey AK623		3/8" Sq. 21mm. 21" 108.5N.m Calibrated	Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
16	Driver steering wheel		1 unit	B0402-01-6	6-Jun-09	Sealey AK6338		3/8" Sq 250mm	Tools Store	
17	Extension bar		1 set	B0402-01-7 B0402-01-8 B0402-01-9	6-Jun-09 6-Jun-09 6-Jun-09			each one of 3/8" Sq /5, 150, 225 mm (total of 3 pcs)	Tools Store Tools Store Tools Store	
18	Universal joint		1 pc	B0402-01-20	6-Jun-09	Sealey S38LJ		3/8" Sq	Tools Store	
19	Nut spinner steering wheel		2 units	B0402-01-21 B0402-01-22	6-Jun-09 6-Jun-09			length 380mm	Tools Store Tools Store	
20	1 handle nut spinner set		1 set	B0402-01-23 B0402-01-3	6-Jun-09 6-Jun-09	Sealey AK58-2		each one of 8, 9, 10, 11, 12, 13, 14, 17, 19mm (total of 8 pcs)	Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
21	Cross wrench		1 units	B0402-0132	1-Jun-09			4-way 17*19*21mm	Tools Store	
22			2 unit	B0402-0133 B0402-0134	1-Jun-09 1-Jun-09			4 way 17.19.21.22mm	Tools Store Tools Store	
23	Moody T wrench		1 unit	B0402-0135	1-Jun-09	Sealey AK5841		400mm with 10mm flexible holder	Tools Store	
24	Power driver		2 sets	B0402-0136 B0402-0142 B0402-0143 B0402-0149	1-Jun-09 1-Jun-09 1-Jun-09 1-Jun-09			each one of (+) 1x75, 2x70, 2x50, (-) 6x100, 6x125, 6x50, 8x200 (total of 7 pcs)	Tools Store Tools Store Tools Store Tools Store	
25			1 set	B0402-0150 B0402-0157	1-Jun-09 1-Jun-09		Sealey AK4301	each one of Slotted: 3x75, 4x80, 5x75, 6.5x150, 6.5x38mm Pozis: #0x75, #1x80, #2x100 (total of 8 pcs)	Tools Store Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
26	Stubby driver		2 sets	B0402-0158	1-Jun-09			each one of length 50mm. (+) and (-) (total of 4 pcs)	Tools Store	
				B0402-0159	1-Jun-09				Tools Store	
				B0402-0160	1-Jun-09				Tools Store	
				B0402-0161	1-Jun-09				Tools Store	
27			1 set	B0402-0162	1-Jun-09		Sealey AK7300/1 73	each one of screwdriver socket 6.5x38mm & screwdriver Phillips #2x38mm (total of 2 pcs)	Tools Store	
				B0402-0163	1-Jun-09				Tools Store	
28	Insulated driver		1 set	B0402-0164	1-Jun-09	9824/9820		each one of 9824-01, 9824-02, 9824-03, 9820-2, 9820-4, 9820-5.5 (total of 6 pcs)	Tools Store	
				B0402-0169	1-Jun-09					
29	Precision driver		1 set	B0402-0170	1-Jun-09	Sealey AK97302		each one of Phillips #00x50, #0x50, #1x50mm Socket 1.5x50, 2x50, 3x50mm (total of 6 pcs)	Tools Store	
				B0402-0175	1-Jun-09					
30	Hexagon L form wrench		1 set	B0402-0176	1-Jun-09	Sealey AK774C		each one of Hex keys 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm length 92-230mm (total of 9 pcs)	Tools Store	
				B0402-0184	1-Jun-09					






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
31	Water pump prier		1 unit	B0402-0185	1-Jun-09	Sealey AK8531		250mm, self adjusting	Tools Store	
32	Plier		2 units	B0402-0186 B0402 0187	1-Jun-09 1-Jun 09			8" Innesman plier	Tools Store Tools Store	
33			1 unit	B0402-0188	1-Jun-09	Sealey AK8504		combination plier 205mm	Tools Store	
34	Snapping plier		1 unit	B0402 0189	1-Jun 09	Sealey AK8511		round nose plier 175mm	Tools Store	
35	Radial plier		1 unit	B0402-0190	1-Jun-09	Sealey AK8505		flat nose 170mm	Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
36	nipper		2 unit	B0402-0197 B0402-0192	1-Jun-09 1-Jun-09	Sealey AK857E		side cutters 160mm	Tools Store Tools Store	
37	Crimp plier		1 unit	B0402-0193	1-Jun-09	Sealey AK3657		220mm Insulated terminal 0.5- 0.15-2.5 4-6mm ² uninsulated terminal 1.5 2.5, 6 10mm ² also exchangeable jaw terminal	Tools Store	
38	Cutting wires ripper		2 units	B0402-0194 B0402-0195	1-Jun-09 1-Jun-09	TS-3000B		Diameter 1.0, 1.6, 2.0, 2.6, 3.2mm	Tools Store Tools Store	
39	Cutting wires ripper		1 unit	B0402 0196	1-Jun-09	Sealey AK225b		0.2-6mm ² 200mm	Tools Store	
40	Wire cutter		1 unit	B0402-0197	1-Jun-09	Sealey AK503		60mm 190mm	Tools Store	



02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
41	Electric soldering iron		1 unit	B0402-0198	1-Jun-09	Sealey SD100		100W, 230V	Tools Store	
42	Adjustable wrench		2 units	B0402-0199 B0402-0200	1-Jun-09 1-Jun-09			150mm	Tools Store Tools Store	
43			1 unit	B0402-0201	1-Jun-09	Sealey AK9451		150mm	Tools Store	
44	Adjustable wrench		1 unit	B0402-0202	1-Jun-09	Sealey AK9452		200mm	Tools Store	
45	Oilier wrench		2 units	B0402-0203 B0402-0204	1-Jun-09 1-Jun-09			stell type	Tools Store Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
46	Oilier wrench		2 units	30402-0205 30402-0206	1-Jul-09 1 Jul 09			leather type	Tools Store Tools Store	
47			1 unit	30402-0207	1-Jul-09			66-100mm	Tools Store	
48			1 unit	30402-0208	1-Jul-09			ψ 12-155mm	Tools Store	
49	Chain wrench		2 units	30402-0209 30402-0210	1-Jul-09 1 Jul 09	VIRAX		60-114mm steel	Tools Store	
50			4 units	30402-0211 30402-0212 30402-0213 30402-0214	1-Jul-09 1-Jul-09 1-Jul-09 1-Jul-09			12 inches (90-140mm) steel	Tools Store Tools Store Tools Store Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
51	Metallic file		1 set	B0402-0215 B0402-0216 B0402-0217	1-Jun-09 1-Jun-09 1-Jun-09	Sealey AK572		Imperial and metric. Blade dimension 75x130mm (total of 3 pcs)	Tools Store Tools Store Tools Store	
52	Plastic Hammer		2 units	B0402-0218 B0402-0219	1-Jun-09 1-Jun-09				Tools Store Tools Store	
53			1 unit	B0402-0220	1-Jun-09	Sealey N-F-15		1/25 bit	Tools Store	
54	Vernier calliper		1 unit	B0402-0221	1-Jun-09	Facom 300		0-50mm/0-6" stainless steel digital	Tools Store	
55	Thickness gauge		2 units	B0402-0222 B0402-0223	1-Jun-09 1-Jun-09			0.05-1.00mm, 13 blades	Tools Store Tools Store	



02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
56	Thickness gauge		1 unit	B0402-0224	1-Jun-09	Sealey VS572		Imperial graduated 35 blade color gauge dual marked 35 blades 75x13mm 0.0015 -0.035	Tools Store	
57	Steel scale		2 units	B0402-0225 B0402-0226	1-Jun-09 1-Jun-09			Form length 300mm	Tools Store Tools Store	
58			1 unit	B0402-0227	1-Jun-09	Sealey AK9641		Length: 300mm	Tools Store	
59	Tape measure		1 unit	B0402-0228	1-Jun-09	Sealey AK988		Length: 3m (10ft) x width: 16mm	Tools Store	
60	Metal shears		1 unit	B0402-0229	1-Jun-09	MS-2			Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
61	Metal saw		1 unit	B0402-0230	1-Jun-09	10-0500		including spare blades (6pcs x 2 packs)	Tools Store	
62	Vice		1 unit	B0402-0231	1-Jun-09	FV80		Opening 65mm; width 80mm	Tools Store	
63	C type clamp		2 units	B0402-0232 B0402-0233	1-Jun-09 1-Jun-09			5"	Tools Store Tools Store	
64	Gear puller		2 units	B0402-0234 B0402-0235	1-Jun-09 1-Jun-09			4" 20-1"0mm width	Tools Store Tools Store	
65			2 units	B0402-0236 B0402-0237	1-Jun-09 1-Jun-09			8" 30-210mm width	Tools Store Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks			
66			1 set	B0402-0238	1-Jun-09	Sealey AK79		each one of 75, 100, 150, 200mm (total of 4 pcs)	Tools Store				
				B0402-0239	1-Jun-09		Tools Store						
				B0402-0240	1-Jun-09		Tools Store						
				B0402-0241	1-Jun-09		Tools Store						
67	Pipe cutter		2 units	B0402-0242	1-Jun-09	Sealey AK5062		Ø8 50mm size	Tools Store				
				B0402-0243	1-Jun-09	Sealey AK5062			Tools Store				
68	Metal Saw		1 unit	B0402-0244	1-Dec-09			including spare blades (5pcs)	Tools Store				
69	Timber Hammer		2 pcs	B0402-0245	1-Dec-09	Everest Quality Tools			Tools Store				
70	Timber Saw		2 pcs	B0402-0246	1-Dec-09	Exploit-it.com (5' 10)		500 mm (20") Handport (incl. box saw)	Tools Store				
									B0402-0247	1-Dec-09		Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
71	Standard lever		3 pcs	B0402-0248	- Nov-09			2 heads Standard type 90°mmx2pcs 75°mmx1pcs	Tools Store	
				B0402-0249	- Nov-09				Tools Store	
				B0402-0250	- Nov-09				Tools Store	
72	Fabricated lever		2 pcs	B0402-0251	- Dec-09			2 Heads Fabricated type	Tools Store	
				B0402-0252	- Dec-09				Tools Store	
73	Metal Hammer		1 unit	B0402-0253	- Nov-09				Tools Store	
74	Vico		2 units	B0402-0254	- Jun-09				Storage	
75	Pipe wrench		2 units	B0402-0255	- Jun-09			36"	Tools Store	
				B0402-0256	- Jun-09				Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
76			1 unit	B0402-0267	1 Jun-09			steel 91mm, 13-00mm size 18	Tools Store	
				B0402-0268	1 Jun-09				Tools Store	
77			2 units	B0402-0269	1 Jun-09			size 24	Tools Store	
				B0402-0260	1 Jun-09				Tools Store	
78	Wire cutter		2 units	B0402-0261	1 Jun-09			18/450	Tools Store	
				B0402-0262	1 Jun-09				Tools Store	
79	Chain block		1 unit	B0402-0263	1 Jun-09	Veital -ISC S=RI=S		Veital OSAKA JAPAN H-SC SFR FS 3 ton/5m	Tools Store Experimental Room	
				B0602-0264	1 Jun-09					
80	Lever block		2 units	B0402-0265	1 Jun-09			15 ton	Tools Store	
				B0402-0266	1 Jun-09				Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
81	Hand Puller		2 units	B0402-0267 B0602-0268	1 Jun-09 1 Jun-09			1 ton	Tools Store Experimental Room	
82	O I Manual Pump		2 units	B0402-0269 B0602-0270	1 Jun-09 1 Jun-09				Tools Store Storage	
83	Shackle		6 units	B0402-0271	1 Jun-09			20 mm size	Tools Store	
84	Wire Sling		2 units	B0402-0272	1 Jun-09			L-50 cm	Tools Store	
85			4 units	B0702-0273	1 Jun-09			L-2m	Tools Store	


02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
86	Clamping bar		2 units	B0702-0274	1 Jun-09			1 inch	= elc	
				B0702-0275	1 Jun-09				= elc	
87			1 unit	B0702-0276	1 Jun-09			2 inches	= elc	
88			2 units	B0702-0277	1 Jun-09			3 inches	= elc	
				B0702-0278	1 Jun-09				= elc	
89	A-Lift load		1 unit	B0702-0279	1 Jun-09				= elc	
90	Filtering ripple		2 units	B0702-0280	1 Jun-09			GS 3 inches	= elc	
				B0702-0281	1 Jun-09				= elc	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
91			2 units	B0702-0282	1 Jun-09			GS 1 inch	= old	
				B0702-0283	1 Jun-09				= old	
92	Pipe Elevator		2 units	B0702-0284	1 Jun-09			steel, 3 inches	= old	
				B0702-0285	1 Jun-09				= old	
93			2 units	B0702-0286	1 Jun-09			steel, 1 inch	= old	
				B0702-0287	1 Jun-09				= old	
94	Side Triangle		2 units	B0702-0288	1 Jun-09			3 inches	= old	
				B0702-0289	1 Jun-09				= old	
95			2 units	B0702-0290	1 Jun-09			1 inch	= old	
				B0702-0291	1 Jun-09				= old	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
96	Portable table		1 unit	B0702-0292	Jun-09			H=600x400x300mm φ=100mm	Field	
97	Tool s Box I		4 units	B0402-0295 B0402-0296 B0402-0297 B0402-0298	Nov-08 Nov-08 Jul-09 Jul-09			3 stages open both side type 530x200x200mm	Tools Store Tools Store Tools Store Tools Store	
98	Tool s Box II		1 unit	B0402-0299	Jul-09	Facom 3" x A		Tool box of 470x220x235mm	Tools Store	
99	Tool shelf		2 units	B0402-0300 B0402-0301	Jul-09 Jun-09	A-P03063 A-P03063		Tool box 6 drawer with ball bearing runners black	Tools Store Tools Store	
100	Catvmanzec steel pipes		53 units	B0702-0321	Jun-09			3 inches 50 units x 3m - 150mm	Field	all 5m pipes (25 units) were cutted in to 3 m length and threaded






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
'01			50 units	B0702-0322	1-Jun-09			50 units x 3m = 150m 1 inch	elc	all 5m pipes (25 units) were cutted in to 3m length and threaded
'02	Valve		1 unit	B0702-0323	1-Jun-09	Gate valve		2 inches	elc	
'03			2 units	B0402-0324	1-Jun-09	Ball type		Galvanized steel (GS) 3 inches both fema e encc. italian made	Tools Store	
'04			2 units	B0402-0325	1-Jun-09	Ball type		Galvanized steel (GS) 2 inches both fema e encc. italian made	Tools Store	
'05	1-connection pipe (Elbow)		2 units	B0402-0326	1-Jun-09			Galvanized steel (GS) 1 inch	Tools Store	





02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
'06			7 unit	B0402-0327	1 Jun-09			Galvar / red steel (GS) 2 inches	Tools Store	
'07			3 units	B0402-0328	1 Jun-09			Galvar / red steel (GS) 3 inches	Tools Store	
'08	T - elbow		2 units	B0402-0329	1 Jun-09			Galvar / red steel (GS) 3 inches	Tools Store	
'09	Soc-xel		40 units	B0402-0330	1 Jun-09			Galvanized steel (GS) 1 inch	Tools Store	set in the pipes
'10	Soc-xel		9 unit	B0402-0331	1 Jun-09			Galvanized steel (GS) 2 inches	Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
001			39 units	B0402-0332	1 Jun-09			Galvanized steel (GS) 3 inches	Tools Store	set in the pipes
002	Nipple		11 units	B0402-0333	1 Jun-09			Galvanized steel (GS) 2 inches	Tools Store	
003			12 units	B0402-0334	1 Jun-09			Galvanized steel (GS) 3 inches	Tools Store	
004	Union		6 units	B0402-0335	1 Jun-09			Galvanized steel (GS) 2 inches	Tools Store	
005	Union		4 units	B0402-0336	1 Jun-09			Galvanized steel (GS) 3 inches	Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
116	Reducer		2 units	B0402-0337	1-Jun-09			Galvan /red steel (GS) 1" female - 2" male	Tools Store	
117			2 units	B0402-0338	1-Jun-09			Galvan /red steel (GS) 2" female - 2" female	Tools Store	
118	PE adaptor		4 units	B0402-0339	1-Jun-09			Polyethylene (PE) 1" male	Tools Store	
119	1/2" esc adaptor		1 unit	B0402-0340	1-Jun-09				Tools Store	for air hose
120	1/2" elbow		6 units	B0402-0341	1-Jun-09			Plastic 2 inches	Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
121	T-Elbow		1 unit	B0402-0342	1-Jun-09			Plastic 2 inches	Tools Store	
122	Soft-start control unit (SRLUS)		1 unit	B0402-0343 B0402-0343	1-Jun-09 1-Jun-09	3RW3034-AB-4	B/N: 401209374454		Tools Store Tools Store	for training control panel
123	Multi-Range IC timer		8 units	B0402-0344 B0402-0351	1-Jun-09 1-Jun-09	AH3-NB		Time: 3s to 30min Contact rating: 2kVAC 5A resistive	Tools Store	
124	Electrodes for welding		total 6 units (2 of each)	B0402-0352 B0402-0353 B0402-0354	1-Jun-09 1-Jun-09 1-Jun-09			2.5mm 3.2mm 4mm	Tools Store Tools Store Tools Store	2 JN:s 2 JN:s 2 JN:s
125	Welding mask		1 unit	B0402-0355	1-Jun-09				Tools Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
26	Welding goggles		3 units	B0402-0356 B0402-0357 B0402-0358	1 Jun-09 1 Jun-09 1 Jun-09				Tools Store Tools Store Tools Store	
27	Helmet:		40 units	B0502-0359 B0502-0368	1 Jun-09 1 Jun-09				Storage	
28	Safety cross		8 units	B0402-0399	1 Jun-09			different sizes	Tools Store	
29	Safety boots		23 pairs	B0602-0400	1 Jun-09			different sizes	Storage	
30	Long boots		30 pairs	B0502-0401	1 Jun-09			rubber type, different sizes	Storage	




02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
31	Working gloves		66pairs	B0402-0402	1 Jun-09			cloth type	Tools Store	
32			4 pairs	B0402-0403	1 Jun-09			leather type	Tools Store	
33	Fire Extinguisher		4 units	B0402-0404 B0402-0405 B0502-0406 B0502-0407	1 Jun-09 1 Jun-09 1 Jun-09 1 Jun-09			6kg weight capacity	Tools Store Tools Store Storage Storage	
34	Multi purpose grease		1 unit	B0702-0408	1 Jun-09			Vp3 / 15kg weight	- elc	
35	Fixing Code for Power Cable		280 units	B0402-0409	1 Jun-09			3 packs x 100 units each	Tools Store	

02 List of Tools






No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
36	Therese tape		225 units	B0402-0410	1 Jun-09			12x0.1mmx15m	Tools Store	
37	Viny tape		217 rolls	B0402-0411	1 Jun-09			3 packages of 70 rolls	Tools Store	
38	Tank		2 units	B0402-0412 B0402-0413	1 Jun-09 1 Jun-09			size: 20 liters	Tools Store Tools Store	
39	Oil Jug		2 units	B0402-0414 B0402-0415	1 Jun-09 1 Jun-09			5 liters	Tools Store Tools Store	
40	Polyethylene pipe		1 unit	B0602-0416	1 Jun-09			1 meter = 150m	Experimental Room	

02 List of Tools






No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
141	Loss		1 unit	30402-0417	1-Jul-09	Sunny nose		2 pieces, L = 100m	Tools Store	for submersible pump (SEMISON 18t)
142			1 unit	30402-0418	1-Jul-09	Sunny nose		4 inches, L = 100m	Tools Store	
143			1 unit	30502-0419	1-Jul-09	Air hose		1 inch, L = 20m	Storage	no using 1 adaptor (material is:)
144	Nylon rope		3 units (300m)	30402-0420	1-Jul-09			φ 10mm, L 4 units x 100m	Tools Store	
145	Power cable		1 unit	30402-0421	1-Jul-09			L = 50m	Tools Store	for submersible pump (SEMISON 18t)

Inventory of Equipment in PWCT






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
47	Nylon Sl'ng 1m		4 units	B0402-0844 B0402-0845 B0402-0846 B0402-0847	14-Feb-10 14-Feb-10 14-Feb-10 14-Feb-10				tools Store tools Store tools Store tools Store	
48	Nylon Sl'ng 2m		2 units	B0402-0848 B0402-0849	14-Feb-10 14-Feb-10				tools Store tools Store	
49	Nylon Sl'ng 3m		2 units	B0402-0850 B0402-0851	14-Feb-10 14-Feb-10				tools Store tools Store	
50	Nylon Sl'ng 5m		4 units	B0402-0852 B0402-0853 B0402-0854 B0402-0855	14-Feb-10 14-Feb-10 14-Feb-10 14-Feb-10				tools Store tools Store tools Store tools Store	
51	Nylon Sl'ng 6m		4 units	B0402-0856 B0402-0857 B0402-0858 B0402-0859	14-Feb-10 14-Feb-10 14-Feb-10 14-Feb-10				tools Store tools Store tools Store tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
152	Wire Brush		8units	B0402-0860	14-Feb-10				Tools Store	
153	Shack c		8units	B0402-0861	14-Feb-10			8mm	Tools Store	
154	Ball Valve		2units	B0402-0862	14-Feb-10			1/2"	Tools Store	
155	Elbow		3units	B0402-0863	14-Feb-10			1-1/4"	Tools Store	
156	Elbow		4units	B0402-0864	14-Feb-10			1/2"	Tools Store	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
'57	T.F.cow		2 units	B0402-0895	14-Feb-10			2"	Tool Store	
'58	T.F.cow		4 units	B0402-0895	14-Feb-10			3"	Tool Store	
'59	Nipp c		5 unit	B0402-0867	14-Feb-10			1/2"	Tool Store	
'60	Nipp w		1 units	B0402-0898	14-Feb-10			3/4"	Tool Store	
'61	Reducer		3 units	B0402-0863	14-Feb-10			3/4" female-2" male	Tool Store	






02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
'62	Reducer		1 Units	B0402-0870	14-Feb-10			3/4" female-1-1/2" male	Tool Store	
'63	Reducer		1 Units	B0402-0871	14-Feb-10			3/4" female-1" male	Tool Store	
'64	Reducer		1 Units	B0402-0872	14-Feb-10			1-1/2" female-1-2" male	Tool Store	
'65	Reducer		2 Units	B0402-0873	17-Feb-10			2" female-3" male	Tool Store	
'66	Carrier		2 Units	B0502-0897 R0502-0898	23-Feb-10 23-Feb-10				Storage Storage	

02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
68	Drill with Hammer drill system		1 units	B0402-0899	23-Feb-10				Tool Store	
69	Drivers Set		1 units	B0402-0900	23-Feb-10				Tool Store	
70	Trippod for plumbing		1 units	B0502-0901	23-Feb-10			Type 2.3m	Storage	
71	Disc Grinder		1 units	B0402-0902	23-Feb-10				Tool Store	
72	Disc Grinder cutting Saw		1 units	B0402-0903	23-Feb-10				Tool Store	


02 List of Tools

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification	Installed / Depository	Remarks
73	Disc Grinder polishing Saw		1 units	B0402-0904	23-Feb-10				Local Store	
74	Electric Air Blower			B0402-0905	23-Feb-10				Local Store	
75	Tarp		1 units	B0502-0906	23-Feb-10				Storage	
76	Parasol		1 units	B0402-0907	23-Feb-10				Local Store	
77	Dia. gauge		2 units	B0402-0908	23-Feb-10				Local Store	

1.3.3. List of Testing and Survey Equipments

Inventory of Equipment in PWCT





03 List of Testing and Survey Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
1	Water leakage detector		4 sets	B0403-0423	1-Jan-08	FUJICOM / HG-10AII	004937	Instrument proper -headphone, Pickup sensor SC; 6 batteries, Case	Tools Store	
				B0403-0424	1 Oct: 09		005170		Tools Store	
				B0403-0425	1-Oct: 09		005168		Tools Store	
				B0403-0426	1 Oct: 09		005169		Tools Store	
2	Strobe scope		1 set	B0403-0427	1-Jul-08	SUGAWARA / MS-30	80910093	Instrument proper, Power cable, Adaptor	Tools Store	
3	Insulation Resistance Tester (Mega)		4 units	B0403-0428	1-Jul-08	SANWA / 3V52-8S	08070800431	Leather case 2 pieces	Tools Store	
				B0403-0429	1 Jul 08		08050800968		Tools Store	
				B0403-0430	1-Oct: 09		09040800746		Tools Store	
				B0403-0431	1 Oct: 09		09040800743			
4	Clamp meter		2 units	B0403-0432	1-Jul-08	SANWA / DCL-000	073C00092	1 leather case 2 pieces	Tools Store	
				B0403-0433	1-Jul-08	SANWA / DCL-000	073C00093		Tools Store	
5			1 unit	B0403-0434	1-Oct: 09	Seeley MM405		AC/DC current 0-200A voltage detection 100-600V AC jaw opening 18mm	Tools Store	

03 List of Testing and Survey Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
6	Earth tester		2 sets	R0403-0435 R0403-0436	1-Jul-08 1 Jul 08	HIOK / 3151	3808-2652 3905/857	Instrument prec. 3 type of cable. 2 rods 6 batteries, Case	Tools Store Tools Store	
7	Tester		1 unit	R0403-0437	1-Oct-09	Facom 711		DC/AC voltages, 0.1mV to 600V, resistance 0.1 - 40Ω	Tools Store	
8			8 units	30403-0438 30403-0445	1-Oct-09 1-Oct-09	D - 830B		DC/AC voltages DC voltage 0.001V to 1mV AC voltage 0.00mV to 1V DC current 0.00uA to 0mA resistance 0.1 - 1KΩ	Tools Store	Digital Multimeter
9	Pressure gauge		2 units	30403-0446 30403-0447	1-Jul-08 1 Jul 08	A - 3/8 100*1mPa		Kotaka Gauge A - 3/8 100*1mPa 3/8 φ10cm, 0-1MPa	Tools Store Tools Store	
10	Recording pressure gauge		3 units	30403-0448 30403-0449 30403-0450	1-Oct-09 1-Oct-09 1-Oct-09	DA-121	45224950 - 002 45224950 - 003 45224950 - 001	recording scale recording pen (2 units) spare recording paper (600 units)	Tools Store Tools Store Tools Store	

03 List of Testing and Survey Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Repository	Remarks
11	Water level meter		1 unit	B0403-0451	1-Jan-08	Alpha W-001 yoe 23			Tools Store	
12	Water meter		1 unit	B0403-0452	1-Jun-08	(中国字波)			Tools Store	
13	Pipe line detector		2 sets	B0403-0453 B0403-0454 B0403-0455 B0403-0456	1-Jan-10 1-Jan-10 1-Jan-10 1-Jan-10	PL-960	303820 303821 303822 303823	Cable with cable, 1 pc / unit; Ground stick, 1 pc / unit; Flag, 1 pc / unit; Case 1 pc / unit;	Tools Store Tools Store Tools Store Tools Store	
14	Ultrasonic flow meter		1 set	B0403-0457	1-Jan-10	Poraflo-C	A9G6260 T	AC adapter, Power connector conversion cord Power cord, Analog input/output cord (L 1.5m) USB cable (1.5m), Carrying case, Strac Signal cable (5m x 2pcs), BNC adapter SD card (256MB), Attachment belt, Silicone grease (100g), DC power adaptor, f	Tools Store	
15	Programmable logic controller		1 set	B0403-0458 B0403-0459 B0403-0460 B0403-0461 B0403-0462 B0403-0463 B0403-0464 B0403-0465	1-Jan-10 1-Jan-10 1-Jan-10 1-Jan-10 1-Jan-10 1-Jan-10 1-Jan-10 1-Jan-10	MICREX-70	09-0707033553 NC-X-604 09-07070703136 NC1S-1 09-00000060 IT NC1Y18308 TLC012A03608 NL8C T01 09-00011356-PL0029 PL08P19 09-05050303475 K NC1R02 09-05060155-9 NC-P-EO	CPU, NC-P-EO Power supply NC1S Attachment board NC1B-02 Digital output module	Laboratory	

1.3.4. List of Water Quality Instruments

Inventory of Equipment in PWCT

04 List of Water Quality Instruments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
1	Jar tester		1 unit	A0804-0482	1-Oct-09	Miyamoto MJS-6N		 6 station including transformer L112 x W30 x H40	laboratory	
2	Turbidimeter		1 k:	A0804-0483	1-Oct-09	LaMotte 2020e		Range 0-4000 NTU/NU 4 sample tube, 0.1 and 0.3 NTU standard, sample bottle, extra battery (9V), plastic case	laboratory	
3	Colorimeter / Turbidimeter		1 k:	A0804-0484	1-Oct-09	Aqua WA-PT-4IDG		Turbidity 0-20 mg/l Color 0-60 2 spare cell, 1 cleaning wiper, cell cleaning 10" water, case	laboratory	
4	Residual chlorine meter		2 kits	A0804-0485 A0804-0486	1-Oct-09 1-Oct-09	sanita EW 610		range 0-2 mg/l	laboratory laboratory	
5	EC/pH meter		1 k:	A0804-0487	1-Oct-09	cadKK WM 22=0		Range pH 0-14, EC 0-999 µS/cm-0S/cm pH buffer 6.86, 4.0, KCl solution (3.3 N)	laboratory	

04 List of Water Quality Instruments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Repository	Remarks
6	Mult-parameter water quality meter		1 kit	A0802-0288	1-Oct-09	LaMotte Smart-2		4 sample tube AC adaptor, carbonate box	Laboratory	
7	pH/ORP/DO Meter		2 kits	A0802-0289	1-Jan-10	TOA DKK MM-60R	640752 639681	MM-60R Multi-Function Water Quality Meter CSI 5/41C, pH-Combined Electrode CL 2021 Chloride Ion-Combined Electrode F-2021 Fluoride Ion-Combined Electrode	Laboratory	
8	Atomic Absorption Spectrophotometer		1 unit	A0802-0290	Jan/2010	SHIMADZU AA-6300	A30524602203SA	AC power cable Hose assy (gas supply C2H2, 5m/capillary cleaning) tube (sample suction) 2pcs, organic solvent	Laboratory	
9	Flame Spectrophotometer		1 unit	A0802-0291	Jan/2010	Sherwood M4-C	2040	Air tube(2m), Fuel gas tube(2m) Drainage tube(20mx2), Fuse(200mAx2pcs), Power cord Washing wire spare O ring, Nebulizer Entrance tube(-1.5cm), Clamp(4pcs) Connector cable	Laboratory	
10	Borehole camera		1 set	B0403-0292	1-Jan-10	DO 300F-1		Storage case for ground unit Borehole storage case Centralizer for Ø 150	Tools Store	

04 List of Water Quality Instruments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
11	Digital Burette		4 sets	A0804-0493 A0804-0494 A0804-0495 A0804-0496	Jan/2010 Jan/2010 Jan/2010 Jan/2010	82001 DIGITAL 50ml	C2255 N.567 N.5672 N.5669	182 001 DIGITAL 50ml with dry battery 30mm Bottle neck fitting (100J/ml) Bottle neck adapter (33mm, 100J/ml) Bottle neck adapter (38mm, 100J/ml) Bottle neck adapter (45mm, 100J/ml) 262 103 Reserver, 2 liter	laboratory laboratory laboratory laboratory	
12	Air Compressor		1 unit	A0804-0497	Jan/2010	8-15-230-SW7	676029 Item: 1356002	JUN AIR Silent type 5V 2.9A 16bar 230V 50-7 -10 / 50 °C	laboratory	For Atomic Absorption Photometer
14	Usage Indicator Meter		1 set	A0804-0498	Jan/2010	SS-57 MLSS		SS 57 with dry battery Detector with 5mm cable Shock absorption rubber for detector Washing brush	laboratory	
15	Printer		1 unit	A0804-0499	Jan/2010			ink (black) x 2 Paper roll x 2 Na standard solution (1000ppm) x 6 K standard	laboratory	for flame spectrophotometer
16	Regulator		1 unit	A0804-0500	Jan/2010		JBM18 T2 LLGC C Z JB18-T2-00 JM18-T2-C_VO	4uroda	laboratory	for atomic absorption photometer

04 List of Water Quality Instruments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
17	Air Compressor		1 unit	A0804-0501	Jan/2010		20811	Sherwood 230 VAC 50 Hz Amps 0.65 5.5 Kg		for fame spectrophotometer
18	LaMotte color meter reagent		1 kit	A0804-0502	1-Oct-09	LaMotte Total RON UDV 4315 C	Lot No 7145A Code No 4315 C	1 UDV adaptor connector 5 pack bag x 3 bags for Smart2 color meter	laboratory	LaMotte total ron UDV 4315-C
19	Manganese reagent		1 kit	A0804-0503	1-Oct-09	Manganese LR 3658-SC		Sodium Cyanide 1% (1 bottle) Manganese indicator reagent (1 bottle) Hardness Buffer Reagent (2 bottles) pH 7 (2)	laboratory	LaMotte Manganese LR 3658-SC
20	Mercury reagent		1 kit	A0804-0504	1 Oct-09	LaMotte Mercury Smart Reagent 486*		Mercury Alcohol (2 bottles) Acetate Buffer (1 bottle) TMK tablet (1 bottle) Snap e Tube (1) pH 7 (2)	laboratory	LaMotte Mercury Smart Reagent 486*
21	pH standard solution		3 set (total 3 units)	A0804-0505 A0804-0506 A0804-0507	1-Oct-09 1-Oct-09 1-Oct-09	seaDKK	1431-52	each one of pH: 01, 6.86, 9.18 (25°C) (total 3 units)	laboratory laboratory laboratory	for pH meter (Total 3 x WY-22LP)






04 List of Water Quality Instruments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
22	Multi water analysis tools		1 set (total 2 units)	A0804-0508	1-Jan-10			CSI-6/41C, pH-Combined Electrode Cl-2021 Chloride Ion-Combined Electrode N-2031 Nitrate Ion-Combined Electrode O-5703A Dissolved Oxygen Electrode	laboratory	for pH, DO, ORP Meter
23	Flow cathode lamp		12 units	A0804-0509	1-Jan-10			Low Current: Peak Value / High Current: Peak Co: 10mA / 600mA, Co ²⁺ : 5mA / 400mA Cr: 5mA / 5mA, Cu: 5mA / 500mA Fe: 2mA / 400mA, Ni: 5mA / 600mA Pb: 10mA / 300mA, Mg: 5mA / 500mA Li: 15mA / 500mA, Mn: 5mA / 600mA Na: 5mA / 500mA, Ni: 5mA / 400mA	laboratory	for atomic absorption photometer
24	Printer		1 unit	A0804-0527	1-Jan-10			ink (black) x 1 Paper roll x 2 Na standard solution (1000ppm) x 6 K standard solution (1000ppm) x 6 Ca standard solution (1000ppm) x 6 Li standard solution (1000ppm) x 6 Filter for .	laboratory	for flame spectrophotometer
25	Fluorescent lamp		3 units	A0804-0528	1-Jan-10			PI: LIPS 36 W	laboratory	for Draft Chamber
26	Beakers		7 units	A0804-0529	1-Oct-09			1 liter for jar tester	laboratory	

1.3.5. List of Display Model Sets






Inventory of Equipment in PWCT

05 List of Display Model sets





No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
1	Cut-Away mode of submersible type water pump		1 unit	B0505-0794	1-Jan-10	323MSP	01-427		Storage	
2	Cut-Away mode of Multistage Centrifugal pump		1 unit	B0505-0795	1-Jan-10	1305	01-433		Storage	
3	Cut-Away mode of Water Cooled diesel engine		1 unit	B0505-0796	1-Jan-10	1213	01-430		Storage	
4	Cut-Away mode of Air compressor		1 unit	B0505-0797	1-Jan-10	374A	01-431		Storage	
5	Cut-Away mode of Gate valve		1 unit	B0505-0798	1-Jan-10	2105	01-424		Storage	

1.3.6. List of Office Equipments



06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
9	Copy Machine		1 unit	AC0706-0564	1-Nov-08	RICOH aficio MP2000	IV5084601925	Printer copy machine, scanner Sheet feeder, Color	Export office	
10			1 unit	AC0506-0565	1-Feb-09	Rex-Royal MP2000	17086960339	3/W	Printing room	
11	Projector		1 unit	AC0506-0566	1-Jun-08	Epson EMP-S5	WVFX42691		Printing room	
12			2 units	B0206 0567 AC0406-0568	1-May-09 1-May-09	SONY VPL S6	7104236851 S 7104283851 S		Seminar room seminar room-2	
13	Projector Screen			AC0506-0569	1-Jun-08	LUNA		Wall type	PWC na	





06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks		
14	Projector Screen			A0206-0570	1-May-09	View	0715367		Seminar room			
				A0306-0571	1-May-09	View	0721214		with 1" pod	Seminar room		
15	White Board		4 units	A0206-0572	1-Mar-09	No F-S-604-				PC room		
				A0306-0573	1-Mar-09						Seminar room	
				A0406-0574	1-Mar-09						Seminar room-2	
				A0206-0575	1-Mar-09					120 x 180 cm, with stand	Seminar room	
16			1 unit	A0706-0576	1-Mar-09				Executive office			
									90 x 120 cm			
17	G S		20 sets	A0206-0577	1-Nov-08	AircG S 9 3 S.J	AV_K=Y-43447484	KEY42260043/_v93 es.j9	PC room			
				A0206-0578	1-Nov-08		AV_K=Y-43447454	KFY422600582_v93 es.j9	PC room			
				A0206-0579	1-Nov-08		AV_K=Y-43447514	KEY422600635_v93 es.j9	PC room			
				A0206-0580	1-Nov-08		AV_K=Y-43447543	KFY422600961_v93 es.j9	PC room			
				A0206-0581	1-Nov-08		AV_K=Y-43447534	KFY42260007_v93 es.j9	PC room			
				A0206-0582	1-Nov-08		AV_K=Y-43447464	KEY422600453_v93 es.j9	PC room			
				A0206-0583	1-Nov-08		AV_K=Y-43447494	KFY422600619_v93 es.j9	PC room			
				A0206-0584	1-Nov-08		AV_K=Y-43447524	KEY422600635_v93 es.j9	PC room			
				A0206-0585	1-Nov-08		AV_K=Y-43447504	KFY422600790_v93 es.j9	PC room			
				A0206-0586	1-Nov-08		AV_K=Y-43447474	KEY422600824_v93 es.j9	PC room			
				A0206-0587	1-Jan-09		AV_K=Y-43448785	KFY423038538_v93 es.j9	PC room			
				A0206-0588	1-Jan-09		AV_K=Y-43448847	KEY423038763_v93 es.j9	PC room			
A0206-0589	1-Jan-09		AV_K=Y-43448837	KEY423038759_v93 es.j9	PC room							
A0206-0590	1-Jan-09		AV_K=Y-43448815	KFY423039086_v93 es.j9	PC room							
A0206-0591	1-Jan-09		AV_K=Y-43448807	KEY423039218_v93 es.j9	PC room							
A0206-0592	1-Jan-09		AV_K=Y-43448777	KFY423039543_v93 es.j9	PC room							






06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
21	Digital Camera		1 unit	A0706-0604	1-Mar-09	SONY cyber shot S 750	0578206	Battery charger , mem Stick duo 2GB with adapter	Escort office	
22	DVD Player		1 unit	B0206-0605	1-May-09	Panasonic DVD - S 33	VC8FF004637		Seminar room	
23	Plasma TV		2 units	A0106-0606 B0206-0607	1-May-09 1-May-09	Parason c Viera	YT8.3B01404 YT8.3B01408	64 inches	D rector room Seminar room	
24	loudspeaker, hand - free		3 units	A0506-0608 A0506-0609 B0106-0610	1 Oct 09 1-Oct-09 1 Oct 09	PC 610 C		strap, AC Acclor	Printing room Printing room Office	
25	Wireless microphone & speaker system		3 sets	A0706-0611 A0706-0612 B0206-0613	1-Oct-09 1-Oct-09 1-Oct-09	Boa WA-1822 H	08L87 34651 09B87 53958 09B87 53969	incuding 2 handy w reless microphone WM 5220 (C01) ir each set	Escort office Escort office Seminar room	





06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
26	Telephone & Fax		1 unit	A0506-0814	1-May-09	Panasonic KX-FX 386	PTG-2455ZA		Printing room	
27	UPS		2 units	A0606-0815	1-Jun-08	Crown - CM-650	0801210636		Coordinator office	
				A0706-0816	1-Jun-08		0801210635		Execut office	
28			9 units	A0706-0817	1-Mar-09	intex - 1500 V	(2*)004*5060083900710		Execut office	
				A0206-0818	1-Mar-09		(2*)004*5060083900709		PC room	
				A0506-0819	1-Mar-09		(2*)004*5060083900807		Printing room	
				A0206-0820	1-Mar-09		(2*)004*5060083900808		PC room	
				A0206-0821	1-Mar-09		(2*)004*5060083900855		PC room	
				A0206-0822	1-Mar-09		(2*)004*5060083900856		PC room	
				A0206-0823	1-Mar-09		(2*)004*5060083900895		PC room	
				A0206-0824	1-Mar-09		(2*)004*5060083900851		PC room	
				A0206-0825	1-Mar-09		(2*)004*5060083900852		PC room	
29	Stabilizer		3 units	A0706-0826	1-Mar-09	Deltaon - ST - 500 W			Execut office	
				A0706-0827	1-Mar-09				Execut office	
				B0106-0828	1-Mar-09				Office	


06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
30	Stabilizer		1 unit	A0706-0629	1-Mar-09	KL30 - SDR 1500 V	2007127-21		Export office	
31	Transformer		1 unit	A0806-0630	1-Mar-09			200V to 100V for jar tester	Laboratory	for jar tester
32			3 units	A0506-0631 A0506-0632 A0506-0633	1-Oct-09 1-Oct-09 1-Oct-09	KASHIMURA T-352		AC220-240V-100V, 35VA	Printing room Printing room Printing room	for handfree microphone
33	Extension Cable		2 units	B0402-0634 B0402-0635	1-Dec-09 1-Dec-09			250 V 4 Sockets 40 meter	Tools Store Tools Store	
34	Desk		4 units	B0106-0636 B0106-0637 B0106-0638 B0106-0639	1-May-09 1-May-09 1-May-09 1-May-09	ST-600		W=580 x D=800 x H=760mm	Office Office Office Office	






06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks		
35			2 unit	B0106-0840	1-May-09	ST - 800 H		W' 800 x D 800 x H- 750mm	Office			
				B0106-0841	1-May-09				Office			
36			12 units	B0106-0842	1-May-09					Office		
				B0106-0843	1-May-09					Office		
				B0106-0844	1-May-09						Office	
				B0106-0845	1-May-09						Office	
				B0106-0846	1-May-09						Office	
				B0106-0847	1-May-09						Office	
				B0106-0848	1-May-09						Office	
				B0106-0849	1-May-09						Office	
				B0106-0850	1-May-09						Office	
				B0106-0851	1-May-09						Office	
				B0106-0852	1-May-09						Office	
				B0106-0853	1-May-09						Office	
37			4 units	A0706-0854	1-May-09				Execel office			
				A0706-0855	1-May-09				Execel office			
				A0606-0856	1-May-09				Printing room			
				A0606-0857	1-May-09				Coordinator office			
38	Chair		4 units	B0106-0858	1-May-09				Office			
				B0106-0859	1-May-09				Office			
				B0106-0860	1-May-09				Office			
				B0106-0861	1-May-09				Office with snoulers			

06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
39	Chair		25 units	80206-0662	1-May-09				Sem nar room	
				80206-0663	1-May-09				Sem nar room	
				80206-0664	1-May-09				Sem nar room	
				80206-0665	1-May-09				Sem nar room	
				80206-0666	1-May-09				Sem nar room	
				80206-0667	1-May-09				Sem nar room	
				80206-0668	1-May-09				Sem nar room	
				80206-0669	1-May-09				Sem nar room	
				80206-0670	1-May-09				Sem nar room	
				80206-0671	1-May-09				Sem nar room	
				80206-0672	1-May-09				Sem nar room	
				80206-0673	1-May-09				Sem nar room	
				80206-0674	1-May-09				Sem nar room	
				80206-0675	1-May-09				Sem nar room	
				80206-0676	1-May-09				Sem nar room	
				80206-0677	1-May-09				Sem nar room	
				80206-0678	1-May-09				Sem nar room	
				80206-0679	1-May-09				Sem nar room	
				80206-0680	1-May-09				Sem nar room	
				80206-0681	1-May-09				Sem nar room	
				80206-0682	1-May-09				Sem nar room	
				80206-0683	1-May-09				Sem nar room	
				80206-0684	1-May-09				Sem nar room	
				80206-0685	1-May-09				Sem nar room	
				80206-0686	1-May-09				Sem nar room	
				80206-0687	1-Dec-09				Sem nar room	
				80206-0688	1-Dec-09				Sem nar room	
				80206-0689	1-Dec-09				Sem nar room	
				80206-0690	1-Dec-09				Sem nar room	
				80206-0691	1-Dec-09				Sem nar room	
				80206-0692	1-Dec-09				Sem nar room	
				80306-0693	1-Dec-09				Rest ng room	
				80306-0694	1-Dec-09				Rest ng room	
				80306-0695	1-Dec-09				Rest ng room	
				80306-0696	1-Dec-09				Rest ng room	
				80306-0697	1-Dec-09				Rest ng room	
				80306-0698	1-Dec-09				Rest ng room	
				80306-0699	1-Dec-09				Rest ng room	
				80306-0700	1-Dec-09				Rest ng room	
				80306-0701	1-Dec-09				Rest ng room	

06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
44	Side table		3 units	A0806-0716	1-Oct-09	SS=127		No 2 (layout) - 200 x W750 x H800mm	Laboratory	Include wagen unit: WL-3D (x)
				A0806-0717	1-Oct-09		Laboratory		Include wagen unit: WL-3D (x)	
				A0806-0718	1-Oct-09		Laboratory		Include wagen unit: WL-3D (x)	
45			1 unit	A0806-0719	1-Oct-09	SS=157S		No 3 (layout) - 500 x W750 x H800mm - 1000 type swing faucet (x1), small sink (x1), 2-way gas cock (x1)	Laboratory	Include wagen unit: WL-3A (x1) and WJ-3D (x1)
46			6 units	A0806-0720	1-Oct-09	SS=187S		No 4 (layout) - 800 x W750 x H800mm - 1000 type swing faucet (x1), small sink (x1), 2-way gas cock (x1)	Laboratory	Include wagen unit: WL-3A (x1) and WJ-3D (x1)
				A0806-0721	1-Oct-09		Laboratory		Include wagen unit: WL-3A (x1) and WJ-3D (x1)	
				A0806-0722	1-Oct-09		Laboratory		Include wagen unit: WL-3A (x1) and WJ-3D (x1)	
				A0806-0723	1-Oct-09		Laboratory		Include wagen unit: WL-3A (x1) and WJ-3D (x1)	
				A0806-0724	1-Oct-09		Laboratory		Include wagen unit: WL-3A (x1) and WJ-3D (x1)	
				A0806-0725	1 Oct 09		Laboratory		Include wagen unit: WL-3A (x1) and WJ-3D (x1)	
47			2 units	A0806-0726	1 Oct 09	SS= 247S		No 5 (layout) - 200 x W750 x H800mm - 2 wa gas cock (x2)	Laboratory	Include wagen unit: WL-3A (x1) and WJ-3D (x1)
				A0806-0727	1-Oct-09		Laboratory		Include wagen unit: WL-3A (x1) and WJ-3D (x1)	
48	Side table		2 units	A0806-0728	1-Oct-09	SS=307S		No 6 (layout) - 3000 (1500x2) x W750 x H800mm - 1000 type swing faucet (x1), small sink (x1), 2-way gas cock (x1)	Laboratory	Include wagen unit: WL-3A (x1) and WJ-3D (x1)
				A0806-0729	1-Oct-09		Laboratory		Include wagen unit: WL-3A (x1) and WJ-3D (x1)	

06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
49	Balance table		2 units	A0806-0730 A0806-0731	1-Oct-09 1-Oct-09	WJ-27S		No 7 (layout) L 200 x W 750 x H 750mm steel plate L505xW450xH 19mm	Laboratory Laboratory	
50	Center table		2 units	A0806-0732 A0806-0733	1-Oct-09 1 Oct 09	FC-2412S		No 8 (layout) L 2400 x W 200 x H 800mm table 800xW600 (x2) sink L1200xW600 (x1) reagent shelf L 900xW300xH1000 (x2) swing faucet (x2), 2-way gas cock (x2)	Laboratory Laboratory	Include wagon unit WL-4A (x2) and WJ-4C (x2) Include wagon unit WL 4A (x2) and WJ 4C (x2)
51			1 unit	A0806-0734	1-Oct-09	FC-3615S		No 9 (layout) L3000 x W 500 x H 800mm table L1500xW750 (x4) sink L 1500xW600 (x2) reagent shelf L1500xW300 (x2) swing faucet (x2), 2-way gas cock (x2)	Laboratory	Include wagon unit WL-4A (x2) and WJ-4C (x2)
52	Wagon unit		1 unit	A0806-0735	1 Oct 09	WJ 3A		L470 x W 470 x H 573mm 3 drawers type for each table SS= 57S, SS=18/S SSF247S SSF307S	Laboratory	accessory for side tables same as of respective table
53	Wagon unit		14 units	A0806-0746 A0806-0759	1-Oct-09 1-Oct-09	WJ-3D		L470 x W 470 x H 573mm ' door type for each table SSE 128, SS= 57/S, SS=18/S SSF247S SSF307S	Laboratory Laboratory	accessory for side tables same as of respective table

06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
54			6 units	A0806-0760	1-Oct-09	WJ-4A		1470 x W 470 x L-690mm 4 drawers type for each table: FC-24-2S FC-3615S	Laboratory	accessory for side tables, same ID of respective table
				A0806-0765	1-Oct-09				Laboratory	
55			6 units	A0806-0766	1-Oct-09	WJ-4C		1470 x W 470 x L-690mm 1 door & 1 drawer type for each table: FC-24-2S FC-3615S	Laboratory	accessory for side tables, same ID of respective table
				A0806-0771	1-Oct-09				Laboratory	
56	Draft Chamber		1 unit	A0806-0772	1-Jan-10	DSS-57CS		DSS-57CS with transformer for exhaust fan	Laboratory	
57	Bookshelf		6 units	B0106-0773	1 May 09			1 x 2 x 0.5 m	Office	
				B0106-0774	1-May-09				Office	
				B0306-0775	1 May 09				Resting room	
				A0706-0776	1-May-09				Export office	
				A0706-0777	1-May-09				Export office	
B0406-0778	1 May 09			Export office						
58	Shelf		1 unit	B0406-0779	1-May-09			1 x 1.5 x 2m made of steel	Tools Store	

06 List of Office Equipments

No.	Item	Picture	Qty	ID	Acquisition Date	Model	Serial Number	Specification / Accessories	Installed / Depository	Remarks
64	Calculator		20 units							
65	Ruler		20 units							
66	Curve Ruler		20 units							
67	Tracing Paper		4 units							

1.3.7. List of Reference Books

Inventory of Equipment in PWCT

07 List of References (Books)

No.	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
1	Water Supply		1 unit	AC707-0803	1-May-09	Water Treatment Process - Simple Options 1st ed	S. Vigneeswaran, C. Visvanathan	CRC Press (1995/7)	Expert office	
2			1 unit	AC707-0804	1-May-09	Water Treatment Plant Design 4th ed	Author: Water Works Association American Society of Civil Engineers	McGraw-Hill (X) (2002/11)	Expert office	
3			1 unit	AC707-0805	1-May-09	Water Loss Control	Editor: International Water Sturtm Goswan Ki, India	McGraw-Hill (X) (2008/6)	Expert office	
4			1 unit	AC707-0806	1-May-09	Water Distribution System - Handbook	Larry W. Mays	McGraw Hill (X) (1999/9)	Expert office	
5	Water Quality		1 unit	AC707-0807	1-May-09	Handbook of Water Analysis	Leo M. Nollet	CRC Press (2007/6)	Expert office	

07 List of References (Books)

No	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
6	Water Quality		1 unit	AC707-0808	1-May-09	Analytical Methods for Drinking Water, Advances in Sampling and Analysis (Water Quality Measurements Series)	Philippe Quevaux, Clive Tomson	John Wiley & Sons Inc (2005/12)	Expert office	
7			1 unit	AC707-0809	1-May-09	Principles of Water Quality Control	F. Y. Tse	Butterworth-Heinemann (1998/2)	Expert office	
8	Electrics & Mechanics		1 unit	AC707-0810	1-May-09	Industrial Electricity and Motor Controls	Rex Miller, Mark Miller	McGraw-Hill Prof (2007/12)	Expert office	
9			1 unit	AC707-0811	1-May-09	Electric Motors and Drives: Fundamentals, Types and Applications	Austin Hughes	Newnes (2001/9)	Expert office	
10			1 unit	AC707-0812	1-May-09	Electric Motors (Aubel Technical Trades Series)	Rex Miller, Mark Richard Miller	Aude (2003/12)	Expert office	

07 List of References (Books)

No	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
11	Electrical & Mechanics			AC707-0813	1-May-09	Diesel Engine and Fuel System Repair	John F. Dagel, Robert V. Brady	Premier Technical Publishing Co. (1997/10)	Expert office	
12				AC707-0814	1-May-09	Diesel Generator Handbook			Expert office	
13	Groundwater		1 unit	AC707-0815	1-May-09	Well Production Practical Handbook (1st Edition) Francis & Taylor Petroleum Engineering	H. Chole	Technic Editions (2009/07)	Expert office	
14			1 unit	AC707-0816	1-May-09	Hydrogeology Field Manual 2nd Edition	Willis D. Weight	McGraw-Hill Professional (2008/1)	Expert office	
15			1 unit	AC707-0817	1-May-09	Groundwater and Wells 2 Sub Edition	Fletcher C. Driscoll	Reynolds Guyar Designs (1988/12)	Expert office	






07 List of References (Books)

No	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
16	Groundwater		1 unit	AC707-0818	1-May-09	Handbook of Groundwater Engineering	Jacques W. Delleur	Springer (1999/2)	Export office	
17	Geographic Information System		1 unit	AC707-0819	1-May-09	Getting to Know ArcGIS Desktop: The Basics of ArcView, ArcEditor and ArcInfo	Trinity James Ormsby	ESRI PRESS (2008/12)	Export office	(Second Edition, outdated for ArcGIS 9.3)
18			1 unit	AC707-0820	1-May-09	The ESRI Guide to GIS Analysis, Vol. 1: Geographic Patterns and Relationships	Andy Mitchell	ESRI PRESS (1999/07)	Export office	
19			1 unit	AC707-0821	1-May-09	The ESRI Guide to GIS Analysis, Vol. 2: Spatial Measurements and Statistics	Andy Mitchell	ESRI PRESS (2005/7)	Export office	
20	Geographic Information System		1 unit	AC707-0822	1-May-09	Designing Geodatabases: Case Studies in GIS Data Modeling	David Ard, Michael Zeller	ESRI PRESS (2004/9)	Export office	

07 List of References (Books)

No	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
21	Management		1 unit	AC707-0823	1-May-09	Management	Kathryn M. Bartel, David C. Martin, Bartel Overlund	McGraw-Hill International Editions (1997/1997)	Export office	
22			1 unit	AC707-0824	1-May-09	Implementing Electronic Document and Record Management System	Azrad Adam	Auerbach Pub (2007/8)	Export office	
23			1 unit	AC707-0825	1-May-09	The New Rational Manager	Charles Higgins Kepner, Benjamin B. Tregoe	Kepner-Tregoe	Export office	
24			1 unit	AC707-0826	1-May-09	Records Management: Workbook	Norman F. Kalaus, Mira M. Johnson	South-Western Pub (1997/8)	Export office	
25	Management		1 unit	AC707-0827	1-May-10	Water Wells Monitoring, Maintenance and Rehabilitation	P. Howsam		Export office	






07 List of References (Books)

No	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
26			1 unit	AC707-0828	1-May-10	Sustainable Wells, Maintenance, Protection, Prevention, And Rehabilitation	Stuart A. Smith		Export of fee	
27			1 unit	AC707-0829	1-May-10	Water Wells and Pumps	A. M. Michael		Export of fee	
28			1 unit	AC707-0830	1-May-10	Providing Safe Drinking Water Through Systems Technology, Operations and Economics	Gurthee, Nancy Hearne, Joseph A. Colruvo		Export of fee	
29	Water Supply Facility		1 unit	AC707-0831	1-May-10	Standard Methods for Examination of Water & Wastewater, 18th Edition	APHA Clesceri, Eugene W. Rice, Arnold E. Greenberg, Mary Ann		Export of fee	
30			1 unit	AC707-0832	1-May-10	Theory and Practice of Water and Wastewater Treatment	Ronald L. Drosie		Export of fee	

07 List of References (Books)

No	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
31			1 unit	AC707-0833	1-May-10	Organic Quantitative Analysis	Carroll Wardlaw Griffin		Export of fce	
32	Geographic Information System		1 unit	AC707-0834	1-May-10	Unlocking the Census with GIS	Alan J. Peters, Heather MacDonald		Export of fce	
33			1 unit	AC707-0835	1-May-10	Arc Hydro: Gis for Water Resources	David R. Maidment		Export of fce	
34			1 unit	AC707-0836	1-May-10	GIS for Environmental Management	Robert Scally		Export of fce	
35			1 unit	AC707-0837	1-May-10	Gis for Water Resources and Watershed Management	John Cirmisor Lyon		Export of fce	

07 List of References (Books)

No	Category	Picture	Qty	ID	Acquisition Date	Title	Author	Publisher	Installed / Depository	Remarks
36	Geographic Information System		1 unit	AC707-0838	1-May-10	Access 2003 For Dummies	John Kaufeld		Expert office	
37			1 unit	AC707-0839	1-May-10	Database Management Systems	Ragu Ramakrishnan, Johannes Gehrke		Expert office	
38	Pipe Network Management		1 unit	AC707-0840	1-May-10	Design of Water Supply Pipe Networks	Prabhata K. Swamee, Ashok K. Sharma		Expert office	
39	Operation and Maintenance of Treatment Plant		1 unit	AC707-0841	1-May-10	Audel Pumps & Hydraulics	Rex Miller, Marc Ronald Miller, Harry S. Stowar		Expert office	
40			1 unit	AC707-0842	1-May-10	Water Treatment (Water Supply Operations Training Series)	Awwa		Expert office	

2. Sheet Form

- 2.1. Driving Record for The Fork Lift
- 2.2. Operating Record for The Compressor
- 2.3. Operating Record for The Generator
- 2.4. Usage Check List for The Borehole Camera
- 2.5. Usage Check List for The Ultrasonic Liquid Flow Meter
- 2.6. Usage Check List for The Pipe Line Detector
- 2.7. Usage Check List for Testers
- 2.8. Usage Check List for The Water Leakage Detector
- 2.9. Usage Check List for The GPS
- 2.10. Usage Check List for Water Quality Equipment
- 2.11. Usage Check List for The Atomic Absorption
- 2.12. Usage Check List for The Flame Photometer

Borehole camera

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
3							
4							
5							
6							
7							
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9							
10							
11							
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Ultrasonic Liquid Flow meter

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
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5							
6							
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8							
9							
10							
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26							

Sheet No.

Pipe Line Detector

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
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26							

**TESTER
Earth Tester**

Sheet No.

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
3							
4							
5							
6							
7							
8							
9							
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22							
23							
24							
25							
26							

TESTER
Clamp Meter Tester

Sheet No

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
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24							
25							
26							

TESTER

Sheet No

Insulation Resistance Tester

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
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5							
6							
7							
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11							
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21							
22							
23							
24							
25							
26							

Water Leakage Detector

Sheet No

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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25							
26							

GPS Use Check List

Sheet No

No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
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6							
7							
8							
9							
10							
11							
12							
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25							
26							

Water Quality Equipment








No.	Item Code	Date Lend	Date return	Purpose	Place of use	Sign	Check/date
1							
2							
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21							
22							
23							
24							
25							
26							

Attachment








1. Equipment and Material List in Water Analysis Laboratory (Arrange based on **the name of material**)
2. Equipment and Material List in Water Analysis Laboratory (Arrange based on **the stored location**)

1. Equipment and Material List in Water Analysis Laboratory (Arrange based on **the name of material**)








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
1	Aluminum Sulfate	Al ₂ (SO ₄) ₃		50000 g	C	2010/1/15		CBT01-00	
2	Ammonia Chloride 500 g	NH ₄ Cl		500 g	C	2010/1/15	37149K051	CCB01-01	
3	Ammonia Solution 2.5 L	NH ₃		2.5 L	B	2010/1/15	1336-21-6	CDC01-00	
4	Barium Chloride (Di hydrate) 500 g	BaCl ₂ 2H ₂ O		500 g	C	2010/1/15	10326-27-9	CCB01-01	
5	Calcium Carbonate 500 g	CaCO ₃		500 g	C	2010/1/15	471-34-1	CCB01-01	HACCP 912137697
6	Calcium Chloride anhydrous 500 g	CaCl ₂		500 g	C	2010/1/15	10043-52-4	CCB01-01	HACCP 912137697
7	E.D.T.A Di sodium salt 25 g	CH ₂ N(CH ₂ COOH)CH ₂ (OONa ₂) 2H ₂ O		25 g	C	2010/1/15	6381-92-6	CCB01-01	SULAB 911168051








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
8	Erochrom Black T 25 g	$C_2O_2H_{12}N_3NaO_7$ S		25 g	C	2010/1/15	1787-61-7	CCB01-01	SULAB 911168051
9	Ethyle Alkohol 2.5 L	C_2H_6O		2.5 L	A	2010/1/15	64-17-5	CDC01-00	SULAB 911168051
10	Granular Calcium hypochlorite 500 g			500 g	C	2010/1/15		CCB01-01	
11	Hydrochloric acid 2.5 L	HCL		2.5 L	B	2010/1/15	7647-01-0	CDC01-00	SULAB 911168051
12	Kovac's Indole Reagent 100 ml			100 ml	C	2010/1/15		CCB01-01	
13	Magnesium Chloride Hexahydrate 500 g	$MgCl_2 \cdot 6H_2O$		500 g	C	2010/1/15	7791-18-6	CCB01-01	
14	Methyle Orange 25 g	$C_{14}H_{14}N_3NaO_3$ S		25 g	C	2010/1/15	C.I 13025	CCB01-01	SULAB 911168051








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
15	M-Lauryl Sulphate Broth 38.1 g			38.1 g	C	2010/1/15		CCB01-01	
16	Murexide AR 25 g	C8H8N6O6		25 g	C	2010/1/15	C.I 56085	CCB01-01	HACCP 912137697
17	Nitric acid 2.5 L	HNO3		2.5 L	B	2010/1/15	7697-37-2	CDC01-00	SULAB 911168051
18	Phenol phthalein indicator ACS 25 g	C20H14O4		25 g	B	2010/1/15	77-09-8	CCB01-01	
19	Potassium chloride 500 g	KCL		500 g	C	2010/1/15	7447-40-7	CCB01-01	HACCP 912137697
20	Potassium Chromate 500 g	K2CrO4		500 g	C	2010/1/15	7789-00-6	CCB01-01	
21	Potassium Di Chromate 500 g	K2CrO7		500 g	C	2010/1/15	7778-50-9	CCB01-01	SULAB 911168051








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
22	Silver Nitrate 25 g	AgNO3		25 g	C	2010/1/15		CCB01-01	SULAB 911168051
23	Sodium Chloride 500 g	NaCl		500 g	C	2010/1/15		CCB01-01	SULAB 911168051
24	Sodium Hydroxide 500 g	NaOH		500 g	C	2010/1/15	B.No 360	CCB01-01	SULAB 911168051
25	Sulphuric acid 2.5 L	H2SO4		2.5 L	B	2010/1/15	SPGR 1.835	CDC01-00	SULAB 911168051
26	Beakers 50ml			14 pcs	D	2010/1/15		CST07-05	PRIME 155155311
27	Beakers 100ml			20 pcs	D	2010/1/15		CST07-05	PRIME 155155311
28	Beakers 250ml			19 pcs	D	2010/1/15		CST07-06	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
29	Beakers 400ml			10 pcs	D	2010/1/15		CST07-07	PRIME 155155311
30	Beakers 600ml			10 pcs	D	2010/1/15		CST07-08	PRIME 155155311
31	Beakers 1000ml			22 pcs	D	2010/1/15		CCT02-06	PRIME 155155311
32	Borosilicate bottles 100ml	glass		4 pcs	D	2010/1/15		CST01-08	
33	Borosilicate bottles 250ml	glass		24 pcs	D	2010/1/15		CST01-08	PRIME 155155311
34	Burette automatic 25 ml	Automatic		1 pcs	D	2010/1/15		CBC01-00	PRIME 155155311
35	Burette straight 25 ml	Straight		4 pcs	D	2010/1/15		CBC01-00	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
36	Conical Flask 50ml			10 pcs	D	2010/1/15		CST06-04	PRIME 155155311
37	Conical Flask 100ml			18 pcs	D	2010/1/15		CST06-03	PRIME 155155311
38	Conical Flask 250ml			6 pcs	D	2010/1/15		CST06-02	PRIME 155155311
39	Conical Flask 500ml			7 pcs	D	2010/1/15		CST06-07	PRIME 155155311
40	Conical Flask 1000ml			10 pcs	D	2010/1/15		CST06-05	PRIME 155155311
41	Cylinders 10ml			4 pcs	D	2010/1/15		CCS02-01	PRIME 155155311
42	Cylinders 25ml			4 pcs	D	2010/1/15		CCS02-01	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
43	Cylinders 100ml			9 pcs	D	2010/1/15		CCS02-01	PRIME 155155311
44	Cylinders 250ml			14 pcs	D	2010/1/15		CCS02-01	PRIME 155155311
45	Cylinders 500ml			15 pcs	D	2010/1/15		CCS02-01	PRIME 155155311
46	Cylinders 1000ml			10 pcs	D	2010/1/15		CCS02-01	PRIME 155155311
47	Dropping Bottles brown glass 100ml	glass		5 pcs	D	2010/1/15		CST02-04	PRIME 155155311
48	Dropping Bottles glass 100ml	glass		15 pcs	D	2010/1/15		CST02-04	PRIME 155155311
49	Dropping Bottles Plastic 100ml	plastic		5 pcs	D	2010/1/15		CST02-04	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
50	Pipette digital From 100 - 1000 microlitre	Digital		1 pcs	D	2010/1/15		CST02-01	SULAB 911168051
51	Pipette, Graduated 1ml			12 pcs	D	2010/1/15		CST02-01	PRIME 155155311
52	Pipette, Graduated 2ml			15 pcs	D	2010/1/15		CST02-01	PRIME 155155311
53	Pipette, Graduated 5ml			13 pcs	D	2010/1/15		CST02-01	PRIME 155155311
54	Pipette, Graduated 10ml			10 pcs	D	2010/1/15		CST02-01	PRIME 155155311
55	Pipette, Graduated 25ml			6 pcs	D	2010/1/15		CST02-01	PRIME 155155311
56	Volumetric Flask 100ml			27 pcs	D	2010/1/15		CST02-02	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
57	Volumetric Flask 250ml			23 pcs	D	2010/1/15		CST02-03	PRIME 155155311
58	Volumetric Flask 500ml			18	D	2010/1/15		CCS01-01	PRIME 155155311
59	Volumetric Flask 1000ml			24 pcs	D	2010/1/15		CCS01-01	PRIME 155155311
60	Burette digital 50 ml	with Reserver Bottle		4 pcs	E	2010/1/5		CDC01-00	
61	Atomic Absorption			1 pcs	E	2010/1/5	6300	CST04-00	SHIFAK 912680030
62	Cl Detector			2 pcs	E	2009/6/1		CCB01-03	
63	Color meter/ Turbidimeter			1 pcs	E	2009/6/1		CCB01-03	







**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
64	Colori meter for Lamotte			1 pcs	E	2009/6/1	Smart 2	CCB01-03	
65	Distiller W4000			3 pcs	E	2010/1/15	W4000	BRO00-00	
66	Draft Chamber			1 pcs	E	2010/1/5	DSS-157CS	CDC01-00	
67	EC/PH meter			1 pcs	E	2009/6/1		CCB01-03	
68	Flame Photometer			1 pcs	E	2010/1/5	M410	CST06-00	PRIME 155155311
69	Hand Hold Conductivity\ TDS Meter			3 pcs	E	2009/6/1		CST03-01	
70	Heat stirrer			2 pcs	E	2010/1/15	SB162	CST02-10	







**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
71	Jar tester MJS-6N			1 pcs	E	2009/6/1	MJS-6N	CST02-00	
72	Jar tester(NO.4011019)			3 pcs	E	2010/1/15	Serial NO. 401 1019	BFL00-00	
73	Magnetic stirrer			2 pcs	E	2010/1/15	ROTAMAX 120	CST03-04	
74	MLSS meter			1 Pcs	E	2010/1/5	SS-5Z	CCB01-04	
75	Multi-ion Meter 60R			2 pcs	E	2010/1/5	Serial NO. 639681	CCB01-03	PRIME 155155311
76	PH meter (HANNA)			3 pcs	E	2010/1/15	HI 8424	CST03-03	
77	Refrigerator			1 pcs	E	2010/1/15		CFL00-00	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
78	Sensitive balance			3 pcs	E	2010/1/15	HR-200-EC	CBT01-00	
79	Spectrophotometer			1 pcs	E	2010/1/15	DR/4000	CST07-00	
80	Turbidimeter (HACH)			3 pcs	E	2010/1/15	2100NIS	CCT01-06	
81	Turbidimeter (Lamotte)			1 pcs	E	2009/6/1	Model NO. 2020e	CCB01-03	
82	[AA] Compressor			1 pcs	E	2010/1/15		6 CST04-00	SHIFAK 912680030
83	[AA] flame gas (C2H2)	C2H2		1 pcs	B	2010/1/15		CST04-00	
84	[AA] Flame Gas (NO2)	NO2		1 pcs	B	2010/1/15		CST04-00	NEWSITE 911191645








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
85	[AA] Lamp for Cd			1 pcs	E	2010/1/5	L2433-48NQ	CST04-02	SHIFAK 912680030
86	[AA] Lamp for Co			1 pcs	E	2010/1/5	L2433-27NU	CST05-01	SHIFAK 912680030
87	[AA] Lamp for Cr			1 pcs	E	2010/1/5	L2433-24NP	CST05-01	SHIFAK 912680030
88	[AA] Lamp for Cu			1 pcs	E	2010/1/5	L2433-29NB	CST05-01	SHIFAK 912680030
89	[AA] Lamp for Fe			1 pcs	E	2010/1/5	L2433-26NQ	CST05-01	SHIFAK 912680030
90	[AA] Lamp for K			1 pcs	E	2010/1/5	L2433-19NB	CST04-02	SHIFAK 912680030
91	[AA] Lamp for Li			1 pcs	E	2010/1/5	L2433-3NB	CST05-01	SHIFAK 912680030








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
92	[AA] Lamp for Mg			1 pcs	E	2010/1/5	L2433-12NU	CST05-01	SHIFAK 912680030
93	[AA] Lamp for Mn			1 pcs	E	2010/1/5	L2433-25NU	CST05-01	SHIFAK 912680030
94	[AA] Lamp for Na			1 pcs	E	2010/1/5	L2433-11NB	CST04-02	SHIFAK 912680030
95	[AA] Lamp for Ni			1 pcs	E	2010/1/5	L2433-28NQ	CST04-02	SHIFAK 912680030
96	[AA] Lamp for Pb			1 pcs	E	2010/1/5	L2433-82NQ	CST05-01	SHIFAK 912680030
97	[AA] PC			1 pcs	E	2010/12/15	hpL 1706	CST04-00	
98	[FP] Accessories	Some cables, connector, manual, etc		pcs	E	2010/1/5		CST06-01	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
99	[FP] Compressor			1 pcs	E	2010/1/5	M815	CST06-00	PRIME 155155311
100	[FP] Printer			1 pcs	E	2010/1/5	DP104.0100C-R	CST06-00	PRIME 155155311
101	[FP] Printer Paper			3 pcs	D	2010/1/5		CST06-01	PRIME 155155311
102	[Hach] Manual Accessories			1 pcs	E	2010/1/15		CST07-03	
103	[Hach] Sample cell for Spectrophotometer 25 ml			2 pcs	E	2010/1/15	Cat. 26659-02	CST07-03	
104	[Hach] Sample cell for Turbidity meter			30 pcs	E	2010/1/15	Cat. 20849-00	CST07-02	
105	[Hach] Spare Sample Chamber For Spectrophotometer			1 pcs	E	2010/1/15		CST03-02	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
106	[Hach] Spare Sample Holder For Spectrophotometer			5 pcs	E	2010/1/15		CST03-04	
107	[MM60R] (Cl) electrode			2 pcs	E	2010/1/5	Type CL-2021	CST03-06	PRIME 155155311
108	[MM60R] (DO) electrode			2 pcs	E	2010/1/5	Type 0E-570BA	CST03-06	PRIME 155155311
109	[MM60R] (F) electrode			2 pcs	E	2010/1/5	Type F-2021	CST03-06	PRIME 155155311
110	[MM60R] (N) electrode			2 pcs	E	2010/1/5	Type N-300	CST03-06	
111	[MM60R] (NH3) electrode			2 pcs	E	2010/1/5	AE-2041 908F0004	CST03-06	PRIME 155155311
112	[MM60R] (pH) electrode			2 pcs	E	2010/1/5	Type GST-5741C	CST03-03	PRIME 155155311




**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
113	[MM60R] Electrode Stand			2 pcs	E	2010/1/5	LR902	CCB01-03	PRIME 155155311
114	[MM60R] Manual			2 pcs	E	2010/1/5		CCB01-05	
115	[MM60R] Membrane set for DO meter			6 pcs	D	2010/1/5		CCT04-02	
116	Manual for HANNA PH meter			2 pcs	E	2010/1/15		CST03-03	
117	[AA] (Cd) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	CA00410100	CRE01-01	
118	[AA] (Co) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	CO00120100	CRE01-01	
119	[AA] (Cr) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	CR02220100	CRE01-01	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
120	[AA] (Cu) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	CO00850100	CRE01-01	
121	[AA] (Fe) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	HI03020100	CRE01-01	
122	[AA] (K) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	PO01050100	CRE01-01	
123	[AA] (Li) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	LI00600100	CRE01-01	
124	[AA] (Mg) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	MA00110100	CRE01-01	
125	[AA] (Mn) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	MA01110100	CRE01-01	
126	[AA] (Pb) standard solution 100 ml	1000 mg/l		100 ml	C	2010/1/15	PL01050100	CRE01-01	


**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
127	[FP] Standard Sol. for Ca 100 ml	1000 PPM		100 ml	C	2010/1/5	Cat. 001 56 623	CRE01-01	SHIFAK 912680030
128	[FP] Standard Sol. for K 100 ml	1000 PPM		100 ml	C	2010/1/5	Cat. 001 56 621	CRE01-01	SHIFAK 912680030
129	[FP] Standard Sol. for Li 100 ml	1000 PPM		100 ml	C	2010/1/5	Cat. 001 56 622	CRE01-01	SHIFAK 912680030
130	[FP] Standard Sol. for Na 100 ml	1000 PPM		100 ml	C	2010/1/5	Cat. 001 56 620	CRE01-01	SHIFAK 912680030
131	[Hach] Alkaline Cyanide Reagent 50 ml			50 ml	C	2010/1/15	Cat. 21223-26	CRE01-01	
132	[Hach] AluVer 3 (Aluminum Reagent)			100 pcs	C	2010/1/15	Cat. 14290-99	CRE01-01	
133	[Hach] Ammonia Cyanurate			200 pcs	C	2010/1/15	Cat. 26531-99	CRE01-01	


**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
134	[Hach] Ammonia Salicylate			200 pcs	C	2010/1/15	Cat. 26532-99	CRE01-01	
135	[Hach] Ascorbic Acid			100 pcs	C	2010/1/15	Cat. 14577-99	CRE01-01	
136	[Hach] Nitriver-3 (Nitrite Reagent)			9 pcs	C	2010/1/15	Cat.21071-69	CRE01-01	HACCP 912137697
137	[Hach] PAN Indicator Solution 50 ml			50 ml	C	2010/1/15	Cat. 21224-26	CRE01-01	
138	[Hach] Spands reagent for fluorid 1000 ml			1000 ml	C	2010/1/15	Cat. 444-53	CRE01-01	
139	[Hach] Spands reagent for fluorid 500 ml			500 ml	C	2010/1/15	Cat. 444-49	CRE01-01	
140	[Hach] Standard solution for Turbidimeter			3 set	C	2010/1/15	Cat.26621-05	CST07-01	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
141	[Hach] Sulfaver-4(sulfate Reagent)			100 pcs	C	2010/1/15	Cat 21067-69	CRE01-01	HACCP 912137697
142	[Hach] Sulfide 1 Reagent 100ml			100 ml	C	2010/1/15	Cat 1816-32	CRE01-01	
143	[Hach] Sulfide 2 Reagent 100ml			100 ml	C	2010/1/15	Cat 1817-32	CRE01-01	
144	[Hach] Tubetests for COD/20,000			25 pcs	C	2010/1/15	PL456	CRE01-01	
145	[Lamotte] Acetate Buffer 250 ml			250 ml	C	2010/1/15		CCB01-02	
146	[Lamotte] Hard Buffer Rgt. 60 ml			60 ml	C	2010/1/15		CCB01-02	
147	[Lamotte] Manganese Indicator Reagent 30 ml			30 ml	C	2010/1/15		CCB01-02	






**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
148	[Lamotte] n- Propyl alcohol 250 ml			250 ml	C	2010/1/15		CCB01-02	
149	[Lamotte] Sodium Cyanide 15 ml	Na3CN		15 ml	C	2010/1/15		CCB01-02	
150	[Lamotte] TMK tablets			50 pcs	C	2010/1/15	1226-46-6	CCB01-02	
151	[Lamotte] Total Iron UDV 5 Pack			10 pcs	C	2009/6/15	Code 4315-C	CCB01-02	
152	[MM60R] Buffer solution 4.01 for MM-60R PH meter 500 ml	ph4.01		500 ml	C	2010/1/5	Code 143F191	CCT04-02	
153	[MM60R] Buffer solution 6.86 for PH meter 500 ml	ph6.86		500 ml	C	2010/1/5	Code 143F192	CCT04-02	
154	[MM60R] Buffer solution 9.81 for PH meter 500 ml	ph9.81		500 ml	C	2010/1/5	Code 143F193	CCT04-02	

**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
155	[MM60R] Electrolyte for (DO) electrode 50 ml	R-9		50 ml	C	2010/1/5	Code 143A040	CCT04-02	
156	[MM60R] Filling solution for (NH3) electrode 50 ml	RE-NH4		50 ml	C	2010/1/5	RE-NH4	CST03-06	
157	[MM60R] Internal filling solution for electrode 500 ml	KCL 3.3N		500 ml	C	2010/1/5	Code 143F234	CCT04-02	
158	[MM60R] Internal Filling Solution for PH meter 100 ml	PH KCL		100 ml	C	2010/1/5	Code 143F237	CCT04-02	
159	[MM60R] Ionic strength adjuster (CL) 500 ml	ISA-CL		500 ml	C	2010/1/5	Code 143A334	CCT04-02	
160	[MM60R] Ionic strength adjuster (F) TISAB-01 500 ml			500 ml	C	2010/1/5	Code 143A279	CCT04-02	
161	[MM60R] Ionic strength adjuster (NO2) 500 ml	ISA-NO		500 ml	C	2010/1/5	Code 143A340	CCT04-02	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
162	[MM60R] Ionic strength adjuster for (F) TISAB-11 500 ml			500 ml	C	2010/1/5	Code 143A280	CCT04-02	
163	[MM60R] NH3 electrolyte 300 ml	RE-NH4		300 ml	C	2010/1/5		CCT04-02	
164	[MM60R] Outernal filling solution for (CL) electrode 100 ml	RE-2		80 ml	C	2010/1/5	RE-2	CST03-06	
165	[MM60R] Outernal filling solution for (DO) electrode 150 ml	R-9		150 ml	C	2010/1/5	R-9	CST03-06	
166	[MM60R] Outernal filling solution for (F) electrode 100 ml	KCL 1000C		100 ml	C	2010/1/5	KCL 1000C	CST03-06	
167	[MM60R] Outernal filling solution for (N) electrode 100 ml	RE-3		100 ml	C	2010/1/5	RE-3	CST03-06	
168	[MM60R] Standard Solution CL-1000 500 ml			500 ml	C	2010/1/5	Code 143A0281	CCT04-02	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
169	[MM60R] Standard Solution F-1000 500 ml			500 ml	C	2010/1/5	Code 143F391	CCT04-02	
170	[MM60R] Standard Solution NH4 -1000 500 ml			500 ml	C	2010/1/5	Code 143A041	CCT04-02	
171	[MM60R] Standard Solution NH4-N 500 ml			500 ml	C	2010/1/5	Code 143A042	CCT04-02	
172	[MM60R] Standard solution NO3-1000 500 ml			500 ml	C	2010/1/5	Code 143C487	CCT04-02	
173	[MM60R] Standard solution NO3-N 500 ml			500 ml	C	2010/1/5	Code 143C487	CCT04-02	
174	[WM22EP] Internal Filling Solution for pH meter 50 ml	KCL3.3		50 ml	C	2010/1/5	No. 40901	CCB01-02	
175	[WM22EP] PH 4.01 Standard Solution for WM22EP 100 ml	PH4.01		100 ml	C	2009/12/10	No. 40901	CCB01-02	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
176	[WM22EP] PH 6.86 Standard Solution for WM22EP 100 ml	PH6.86		100 ml	C	2009/12/10	No.40901	CCB01-02	
177	Sodium sulfate anhydrous for ??? 100 g	Na2SO3		100 g	C	2010/1/5	Code 128090	CCT04-02	
178	Battery Type	9V		5 pcs	B	2010/1/15	CAT 394669	CCT02-01	
179	Bosshad			5 pcs	D	2010/1/15		CCT04-01	PRIME 155155311
180	Brushes for beakers			12 pcs	D	2010/1/15		CST01-07	PRIME 155155311
181	Brushes for bottels			11 pcs	D	2010/1/15		CST01-07	PRIME 155155311
182	Brushes for test tubes big size			11 pcs	D	2010/1/15		CST01-07	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
183	Brushes for test tubes small size			18 pcs	D	2010/1/15		CST01-07	
184	Burette Holder			2 pcs	E	2010/1/15		CBT01-00	
185	D.W Container 20 L	plastic		1 pcs	A	2010/1/15		BST06-00	
186	D.W Container 40 L	plastic		1 pcs	A	2010/1/15		BST06-00	
187	D.W. Plastic bottle 300 ml			4 pcs	D	2010/1/15		CST01-08	
188	D.W. Plastic bottle 600 ml			8 pcs	D	2010/1/15		CST01-08	
189	Desiccator 270 mm	Glass		1 pcs	E	2010/1/15		CCB01-04	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
190	Filter Paper 100 mm 100 paper	100mm		990 pcs	C	2010/1/15	Ref No. 10300229	CST01-02	
191	Filter Paper 150 mm 100 paper	150mm		2500 pcs	C	2010/1/15	Ref No. 10300212	CST01-03	
192	Filter Paper 200 mm 100 paper	200mm		490 pcs	C	2010/1/15	Ref No. 10300216	CST01-04	
193	Funnel glass	glass		4 pcs	D	2010/1/15		CST01-05	PRIME 155155311
194	Funnel plastic	plastic		20 pcs	D	2010/1/15		CST01-06	PRIME 155155311
195	Glass rod	Glass		9 pcs	D	2010/1/15		CST02-09	
196	Mortar And Pistle			1 pcs	E	2010/1/15		CBT01-00	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
197	Oven (High Temperature)			1 pcs	E	2010/1/15	ELF11\68	CST01-00	
198	Pippette Filler			12 pcs	D	2010/1/15		CST02-05	PRIME 155155311
199	Soap			3 pcs	A	2010/1/15		CCT02-02	
200	Stop Watch			2 pcs	E	2010/1/15		CCT04-01	PRIME 155155311
201	Test Tubes Holder Steel for 18 tubes			25 pcs	E	2010/1/15		BST07-02	PRIME 155155311
202	Test Tubes Holder Steel for 20 tubes			1 pcs	E	2010/1/15		BST07-04	PRIME 155155311
203	Test Tubes Holder Steel for 50 tubes			3 pcs	E	2010/1/15		BST07-04	PRIME 155155311








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
204	Test Tubes Rack Plastic			7 pcs	E	2010/1/15		BST07-01	PRIME 155155311
205	Trash Bags, Alternative Goods			80 pcs	B	2010/1/15		CCT02-04	
206	Brilliant Green Bile Broth 500 g			500 g	C	2010/1/15	DM046	BST01-04	SULAB 911168051
207	EMB Agar 500 g			500 g	C	2010/1/15	M 317	BST01-04	
208	Ethyle Alkohol 2.5 L	C2H6O		2.5 L	A	2010/1/15	64-17-5	BST01-04	SULAB 911168051
209	Formaline 5 L	HCHO		5 L	A	2010/1/15	CAS No. 50-00-0	BST01-04	SULAB 911168051
210	Granular Calcium hypochlorite 500 g			500 g	C	2010/1/15		BST01-04	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
211	Lauryle Sulfate Broth 500 g			500 g	C	2010/1/15	M 080	BST01-04	SULAB 911168051
212	Macconkey Broth 500 g			500 g	C	2010/1/15	02-118	BST01-04	SULAB 911168051
213	M-Endo Agar LES 500 g			500 g	C	2010/1/15	M 1106	BST01-04	
214	Plate Count Agar 500g			500 g	C	2010/1/15	M 091	BST01-04	SULAB 911168051
215	Sodium thiosulfate pentahydrate 1000 g	Na2S2O3 5H2O		1000 g	C	2010/1/15	10102-17-7	BST01-04	
216	Typtone Water (Broth) 500 g			500 g	C	2010/1/15	M463	BST01-04	
217	Autoclave ST18			2 pcs	E	2010/1/15	ST18	BST14-00	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
218	Anaero Jar			5 pcs	E	2010/1/15	AG 25	BST01-06	
219	Autoclave STA-130			3 pcs	E	2010/1/15	STA-130	BST15-00	
220	Centerfuge			2 pcs	E	2010/1/15	1020 D	BST02-00	
221	Colony Counter			4 pcs	D	2010/1/15	Cat No. 211-001	BST07-09	
222	Compressors 230 V			13 pcs	E	2010/1/15	PME0033-022,18	BCS01-01	
223	Distiller(code 4003003)			3 pcs	E	2010/1/15	Code 4003003	BRO00-00	
224	Heat stirrer			1 pcs	E	2010/1/15	B162	BST04-00	

**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
225	Incubator big size			3 pcs	E	2010/1/15	MIR-153	BFL00-00	
226	Incubator small size			6 pcs	E	2010/1/15	N30C	BRO00-00	
227	Microscope			3 pcs	E	2010/1/15	MBL 2000	BST01-02	
228	Oven (High Temperature)			1 pcs	E	2010/1/15	ELF11\68	BFL00-00	
229	Refrigerator			1 pcs	E	2010/1/15		BFL00-00	
230	Sensitive balance			1 pcs	E	2010/1/15	HR-200-EC	BST03-00	
231	Water bath UnStirred			5 pcs	E	2010/1/15	Serial NO. 58256	BST02-00	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
232	Water purification device			3 pcs	E	2010/1/15		BST14-00	
233	Aluminum Foil			1 pcs	C	2010/1/15		BST07-11	
234	Blender 8011EG HGB2WT64			4 pcs	E	2010/1/15		BCT02-02	
235	Bottel glass with screw Cap 100 ml			8 pcs	D	2010/1/15		BST03-03	
236	Bottel glass with screw Cap 250 ml			10 pcs	D	2010/1/15		BST03-02	
237	Bottel glass with screw Cap 500 ml			18 pcs	D	2010/1/15		BST03-01	
238	Bottles Glass Aspirator With Stopper & Stop Cock Cap 1000ml			17 pcs	D	2010/1/15		BCT01-02	






**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
239	Bunsen Burner			2 pcs	E	2010/1/15		BST07-05	
240	Cold Water Keeper Container for sample			4 pcs	E	2010/1/15		BRE01-01	
241	Cool keeper for sample			1 pcs	E	2010/1/15	V.C.DE SG.REG	BST01-06	
242	Cotton Wool			350 pcs	B	2010/1/15		BST07-08	
243	Crucible			1 pcs	C	2010/1/15		BST01-01	
244	Derham tube big size			25 pcs	C	2010/1/15		BST02-07	
245	Derham tube small size			300 pcs	C	2010/1/15		BST02-07	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
246	Face Mask			145 pcs	B	2010/1/15	HX-2	BST07-07	
247	Filteration flask 2000 ml			6 pcs	E	2010/1/15		BST02-00	
248	Filteration Funnel 500 ml			2 pcs	E	2010/1/15		BST02-00	
249	Filteration Funnel Holder			9 pcs	E	2010/1/15		BST02-03	
250	Flame Chair			10 pcs	D	2010/1/15		BST02-02	
251	Glass Pipette Length 150mm			245 pcs	D	2010/1/15		BST02-07	
252	Gloves			350 pcs	B	2010/1/15		BST07-06	








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
253	Hand sanitizer 25ml			2 pcs	C	2010/1/15		BST07-10	
254	Holder for Cricible, Tubes.etc			3 pcs	D	2010/1/15		BST01-01	
255	Knife			10 pcs	D	2010/1/15		BST01-01	
256	Lab Coats			36 pcs	E	2010/1/15		BFL00-00	
257	Magnifier			1 pcs	C	2010/1/15		BST01-03	PRIME 155155311
258	Membrane Filter Paper Coarse	Coarse		250	B	2010/1/15		BST01-05	
259	Membrane Filter Paper Fine 0.45 micrometer	Fine		100 pcs	B	2010/1/15	Cat HAWP04700	BST01-05	SULAB 911168051








**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
260	Microscope Cover Glass			10 box	C	2010/1/15	No. 1	BST01-03	
261	Microscope Slide 0.8-1.0 mm			500 pcs	C	2010/1/15	Ca 76x26	BST01-03	
262	Midisart 2000 0.45 MicroLitre			10 pcs	D	2010/1/15	Type 17804	BST02-03	
263	Nicrome Loops Hoolder			4 pcs	E	2010/1/15		BST01-01	
264	Petridish big size			2 pcs	C	2010/1/15		BCT01-03	PRIME 155155311
265	Petridish medium size			76 pcs	C	2010/1/15		BCT01-04	PRIME 155155311
266	Petridish small size			175 pcs	C	2010/1/15		BCT01-05	

**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
267	Petridish steel Keeper			3 pcs	D	2010/1/15		BST02-08	
268	Rubber for Filtration flask			8 pcs	E	2010/1/15		BST02-00	
269	Sample Bottle			4 pcs	D	2010/1/15		BST03-04	
270	Scissors			10 pcs	D	2010/1/15		BST01-01	
271	Shacker device			5 pcs	D	2010/1/15	Type MR1000	BST02-05	
272	Spatula			16 pcs	D	2010/1/15		BST01-01	
273	Spetstoss slide			20 pcs	D	2010/1/15		BST02-02	

**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
274	Steel cylinder			3 pcs	D	2010/1/15		BST02-08	
275	Test tube glass with screw Cap 150x150 mm			895 pcs	C	2010/1/15		BST02-04	
276	Test tube glass with screw neck			100 pcs	C	2010/1/15		BST02-04	
277	Thermometers 305 mm			44 pcs	E	2010/1/15		BST02-01	
278	Tweezers			9 pcs	D	2010/1/15		BST01-01	
279	Valve for Bottle Glass Aspirator			17 pcs	D	2010/1/15		BCT01-01	
280	Spare part log for Anaero Jar			14 pcs	D	2010/1/15	AG0031A	BST01-05	

**PUBLIC WATER CORPORATION TRAINING CENTER LABORATORY
EQUIPMENT, MATERIALS AND REAGENTS LIST**

ID	Item	Specification	Picture	Quantity	Category	Acquisition Date	Model	Location	Supplier
281	[Hach] Standard solution gel for Turbidimeter			3 cs	E	2010/1/15		CST07-02	

2. Equipment and Material List in Water Analysis Laboratory (Arrange based on **the stored location**)

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
BCS01-01	Compressors	230 V	PME0033	Bio Equipme	13	6	pcs			
BCT01-01	Valve for Bottle Glass Aspirator			Biological T	17	10	pcs			
BCT01-02	Bottles Glass Aspirator With Stopper & Stop	1000ml		Biological T	17	15	pcs			
BCT01-03	Petridish big size			Biological T	2	1	pcs			
BCT01-04	Petridish medium size			Biological T	76	30	pcs			
BCT01-05	Petridish small size			Biological T	175	80	pcs			
BCT02-02	Blender 8011EG	HGB2WT		Biological T	4	3	pcs			
BFL00-00	Jar tester(NO.4011019)		Serial NO	Equipment	3	2	pcs			
BFL00-00	Incubator big size		MIR-153	Bio Equipme	3	1	pcs			
BFL00-00	Oven (High Temperature)		ELF1\68	Bio Equipme	1		pcs			
BFL00-00	Refrigerator			Bio Equipme	1	1	pcs			
BFL00-00	Lab Coats			Biological T	36	33	pcs			
BRE01-01	Cold Water Keeper Container for sample			Biological T	4	2	pcs			
BRO00-00	Distiller W4000		W4000	Equipment	3	2	pcs			
BRO00-00	Distiller(code 4003003)		Code 400	Bio Equipme	3	2	pcs			
BRO00-00	Incubator small size		N30C	Bio Equipme	6	3	pcs			
BST01-01	Crucible			Biological T	1		pcs			
BST01-01	Holder for Cricible, Tubes.etc			Biological T	3	1	pcs			
BST01-01	Knife			Biological T	10	5	pcs			
BST01-01	Nicrome Loops Hoolder			Biological T	4	2	pcs			
BST01-01	Scissors			Biological T	10	5	pcs			
BST01-01	Spatula			Biological T	16	8	pcs			
BST01-01	Tweezers			Biological T	9	4	pcs			
BST01-02	Microscope		MBL 2000	Bio Equipme	3	2	pcs			
BST01-03	Magnifier			Biological T	1		pcs			
BST01-03	Microscope Cover Glass		No. 1	Biological T	10	2	box			
BST01-03	Microscope Slide	0.8-1.0 m	Ca 76x26	Biological T	500	250	pcs			
BST01-04	Brilliant Green Bile Broth	500 g	DM046	BioReagent	500	100	g			
BST01-04	EMB Agar	500 g	M 317	BioReagent	500	100	g			
BST01-04	Ethyle Alkhol	C2H6O	64-17-5	BioReagent	2.5	1	L			
BST01-04	Formaline	HCHO	CAS No.	BioReagent	5	1	L			
BST01-04	Granular Calcium hypochlorite	500 g		BioReagent	500	100	g			
BST01-04	Lauryle Sulfate Broth	500 g	M 080	BioReagent	500	100	g			

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
BST01-04	Macconkey Broth	500 g	02-118	BioReagent	500	100	g			
BST01-04	M-Endo Agar LES	500 g	M 1106	BioReagent	500	100	g			
BST01-04	Plate Count Agar	500g	M 091	BioReagent	500	100	g			
BST01-04	Sodium thiosulfate pentahydrate	Na2S2O3 5H2O	10102-17	BioReagent	1000	100	g			
BST01-04	Tryptone Water (Broth)	500 g	M463	BioReagent	500	100	g			
BST01-05	Membrane Filter Paper Coarse	Coarse		Biological T	250	125				
BST01-05	Membrane Filter Paper Fine	Fine	Cat HAW	Biological T	100	50	pcs			
BST01-05	Spare part log for Anaero Jar	0.45 micr	AG0031A	BioEquip. S	14	7	pcs			
BST01-06	Anaero Jar		AG 25	Bio Equipme	5	3	pcs			
BST01-06	Cool keeper for sample		V.C.DE S	Biological T	1		pcs			
BST02-00	Centerfuge		1020 D	Bio Equipme	2	1	pcs			
BST02-00	Water bath	UnStirred	Serial NO	Bio Equipme	5	2	pcs			
BST02-00	Filteration flask	2000 ml		Biological T	6	3	pcs			
BST02-00	Filteration Funnel	500 ml		Biological T	2	1	pcs			
BST02-00	Rubber for Filteration flask			Biological T	8	4	pcs			
BST02-01	Thermometers	305 mm		Biological T	44	20	pcs			
BST02-02	Flame Chair			Biological T	10	5	pcs			
BST02-02	Spetoss slide			Biological T	20	10	pcs			
BST02-03	Filteration Funnel Holder			Biological T	9	4	pcs			
BST02-03	Midisart 2000	0.45 Micr	Type 178	Biological T	10	5	pcs			
BST02-04	Test tube glass with screw Cap	150x150 mm		Biological T	895	400	pcs			
BST02-04	Test tube glass with screw neck			Biological T	100	50	pcs			
BST02-05	Shacker device		Type MR	Biological T	5	2	pcs			
BST02-07	Derham tube big size			Biological T	25	15	pcs			
BST02-07	Derham tube small size			Biological T	300	150	pcs			
BST02-07	Glass Pipette	Length 15		Biological T	245	150	pcs			
BST02-08	Petridish steel Keeper			Biological T	3	2	pcs			
BST02-08	Steel cylinder			Biological T	3	1	pcs			
BST03-00	Sensitive balance		HR-200-E	Bio Equipme	1		pcs			
BST03-01	Bottel glass with screw Cap	500 ml		Biological T	18	9	pcs			
BST03-02	Bottel glass with screw Cap	250 ml		Biological T	10	5	pcs			
BST03-03	Bottel glass with screw Cap	100 ml		Biological T	8	4	pcs			
BST03-04	Sample Bottle			Biological T	4		pcs			

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
BST04-00	Heat stirrer		B162	Bio Equipme	1		pcs			
BST06-00	D.W Container	plastic		Tools	1		pcs			
BST06-00	D.W Container	plastic		Tools	1		pcs			
BST07-01	Test Tubes Rack Plastic			Tools	7		4 pcs			
BST07-02	Test Tubes Holder Steel	for 18 tub		Tools	25		5 pcs			
BST07-04	Test Tubes Holder Steel	for 20 tub		Tools	1		pcs			
BST07-04	Test Tubes Holder Steel	for 50 tub		Tools	3		1 pcs			
BST07-05	Bunsen Burner			Biological T	2		pcs			
BST07-06	Gloves			Biological T	350	200	pcs			
BST07-07	Face Mask		HX-2	Biological T	145	50	pcs			
BST07-08	Cotton Wool			Biological T	350	1	pcs			
BST07-09	Colony Counter		Cat No. 2	Bio Equipme	4		3 pcs			
BST07-10	Hand sanitizer	25ml		Biological T	2		1 pcs			
BST07-11	Aluminum Foil			Biological T	1		1 pcs			
BST14-00	Autoclave ST18		ST18	Bio Equipme	2		1 pcs			
BST14-00	Water purification device			Bio Equipme	3		2 pcs			
BST15-00	Autoclave STA-130		STA-130	Bio Equipme	3		2 pcs			
CBC01-00	Burette automatic	Automatic		Glass Tools	1		pcs			
CBC01-00	Burette straight	Straight		Glass Tools	4		2 pcs			
CBT01-00	Aluminum Sulfate	Al2 (SO4)3		ChemReage	50000	10000	g			
CBT01-00	Sensitive balance		HR-200-E	Equipment	3		1 pcs			
CBT01-00	Burette Holder			Tools	2		1 pcs			
CBT01-00	Mortar And Pistle			Tools	1		pcs			
CCB01-01	Ammonia Chloride	NH4Cl	37149K04	ChemReage	500	100	g			
CCB01-01	Barium Chloride (Di hydrate)	BaCl2 2H2O	10326-27	ChemReage	500	100	g			
CCB01-01	Calcium Carbonate	CaCO3	471-34-1	ChemReage	500	50	g			
CCB01-01	Calcium Chloride anhydrous	CaCl2	10043-52	ChemReage	500	100	g			
CCB01-01	E.D.T.A Di sodium salt	CH2N(CH2CO)25g	6381-92-4	ChemReage	25	10	g			
CCB01-01	Erochrom Black T	C2OH12N3Na	1787-61-1	ChemReage	25	15	g			
CCB01-01	Granular Calcium hypochlorite			ChemReage	500	100	g			
CCB01-01	Kovac's Indole Reagent	100 ml		ChemReage	100	25	ml			
CCB01-01	Magnesium Chloride Hexahydrate	MgCl2 6H2O	7791-18-4	ChemReage	500	100	g			
CCB01-01	Methyle Orange	C14H14N3Na	C.I 13025	ChemReage	25	25	g			

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
CCB01-01	M-Lauryl Sulphate Broth	38.1 g		ChemReage	38.1	15	g			
CCB01-01	Murexide AR	C8H8N6O6 25 g	C.I 56085	ChemReage	25	10	g			
CCB01-01	Phenol phtalein indicator ACS	C20H14O4 25 g	77-09-8	ChemReage	25	25	g			
CCB01-01	Potassium chloride	KCL 500 g	7447-40-7	ChemReage	500	100	g			
CCB01-01	Potassium Chromate	K2CrO4 500 g	7789-00-4	ChemReage	500	100	g			
CCB01-01	Potassium Di Chromate	K2CrO7 500 g	7778-50-9	ChemReage	500	100	g			
CCB01-01	Silver Nitrate	AgNO3 25 g		ChemReage	25	15	g			
CCB01-01	Sodium Chloride	NaCl 500 g		ChemReage	500	100	g			
CCB01-01	Sodium Hydroxide	NaOH 500 g	B.No 360	ChemReage	500	100	g			
CCB01-02	[Lamotte] Acetate Buffer	250 ml		EquipmentR	250	100	ml			
CCB01-02	[Lamotte] Hard Buffer Rgt.	60 ml		EquipmentR	60	50	ml			
CCB01-02	[Lamotte] Manganese Indicator Reageant	30 ml		EquipmentR	30	10	ml			
CCB01-02	[Lamotte] n- Propyl alcohol	250 ml		EquipmentR	250	100	ml			
CCB01-02	[Lamotte] Sodium Cyanide	Na3CN 15 ml		EquipmentR	15	5	ml			
CCB01-02	[Lamotte] TMK tablets		1226-46-4	EquipmentR	50	10	pcs			
CCB01-02	[Lamotte] Total Iron UDV	5 Pack	Code 431	EquipmentR	10	3	pcs			
CCB01-02	[WM22EP] Internal Filling Solution for pH me	50 ml	No. 4090	EquipmentR	50	No Need	ml			
CCB01-02	[WM22EP] PH 4.01 Standard Solution for W	100 ml	No. 4090	EquipmentR	100	No Need	ml			
CCB01-02	[WM22EP] PH 6.86 Standard Solution for W	100 ml	No.40901	EquipmentR	100	No Need	ml			
CCB01-03	Cl Detector			Equipment	2	1	pcs			
CCB01-03	Color meter/ Turbidimeter			Equipment	1		pcs			
CCB01-03	Colori meter for Lamotte		Smart 2	Equipment	1		pcs			
CCB01-03	EC/PH meter			Equipment	1		pcs			
CCB01-03	Multi-ion Meter 60R		Serial NC	Equipment	2	1	pcs			
CCB01-03	Turbidimeter (Lamotte)		Model NC	Equipment	1		pcs			
CCB01-03	[MM60R] Electrode Stand		LR902	Equipment S	2	1	pcs			
CCB01-04	MLSS meter		SS-5Z	Equipment	1		Pcs			
CCB01-04	Desicator	270 mm		Tools	1		pcs			
CCB01-05	[MM60R] Manual			Equipment S	2		pcs			
CCS01-01	Volumetric Flask	500ml		Glass Tools	18	9				
CCS01-01	Volumetric Flask	1000ml		Glass Tools	24	12	pcs			
CCS02-01	Cylinders	10ml		Glass Tools	4	2	pcs			
CCS02-01	Cylinders	25ml		Glass Tools	4	2	pcs			

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
CCS02-01	Cylinders	100ml		Glass Tools	9	4	pcs			
CCS02-01	Cylinders	250ml		Glass Tools	14	7	pcs			
CCS02-01	Cylinders	500ml		Glass Tools	15	7	pcs			
CCS02-01	Cylinders	1000ml		Glass Tools	10	5	pcs			
CCT01-06	Turbidimeter (HACH)		2100NIS	Equipment	3	1	pcs			
CCT02-01	Battery Type	9V	CAT 3946	Tools	5	2	pcs			
CCT02-02	Soap			Tools	3	1	pcs			
CCT02-04	Trash Bags,Alternative Goods			Tools	80	10	pcs			
CCT02-06	Beakers	1000ml		Glass Tools	22	18	pcs			
CCT04-01	Boshead			Tools	5	2	pcs			
CCT04-01	Stop Watch			Tools	2	1	pcs			
CCT04-02	[MM60R] Membrane set for DO meter			Equipment	6	3	pcs			
CCT04-02	[MM60R] Buffer solution4.01 for MM-60R PH	ph4.01	Code 143	EquipmentR	500	600	ml			
CCT04-02	[MM60R] Buffer solution6.86 for PH meter	ph6.86	Code 143	EquipmentR	500	600	ml			
CCT04-02	[MM60R] Buffer solution9.81 for PH meter	ph9.81	Code 143	EquipmentR	500	600	ml			
CCT04-02	[MM60R] Electrolyte for (DO) electrode	R-9	Code 143	EquipmentR	50	100	ml			
CCT04-02	[MM60R] Internal filling solution for electrode	KCL 3.3N	Code 143	EquipmentR	500	200	ml			
CCT04-02	[MM60R] Internal Filling Solution for PH meter	KCL	Code 143	EquipmentR	100	100	ml			
CCT04-02	[MM60R] Ionic strength adjuster (CL)	ISA-CL	Code 143	EquipmentR	500	200	ml			
CCT04-02	[MM60R] Ionic strength adjuster (F) TISAB-0		Code 143	EquipmentR	500	200	ml			
CCT04-02	[MM60R] Ionic strength adjuster (NO2)	ISA-NO	Code 143	EquipmentR	500	200	ml			
CCT04-02	[MM60R] Ionic strength adjuster for (F) TISA		Code 143	EquipmentR	500	200	ml			
CCT04-02	[MM60R] NH3 electrolyte	RE-NH4		EquipmentR	300	250	ml			
CCT04-02	[MM60R] Standard Solution CL-1000		Code 143	EquipmentR	500	100	ml			
CCT04-02	[MM60R] Standard Solution F-1000		Code 143	EquipmentR	500	100	ml			
CCT04-02	[MM60R] Standard Solution NH4 -1000		Code 143	EquipmentR	500	100	ml			
CCT04-02	[MM60R] Standard Solution NH4-N		Code 143	EquipmentR	500	100	ml			
CCT04-02	[MM60R] Standard solution NO3-1000		Code 143	EquipmentR	500	100	ml			
CCT04-02	[MM60R] Standard solutionNO3-N		Code 143	EquipmentR	500	100	ml			
CCT04-02	Sodium sulfate anhydrous for ???	Na2SO3	Code 128	EquipmentR	100	50	g			
CDC01-00	Ammonia Solution	NH3	1336-21-6	ChemReage	2.5	0.5	L			
CDC01-00	Ethyle Alcohol	C2H6O	64-17-5	ChemReage	2.5	2	L			
CDC01-00	Hydrochloric acid	HCL	7647-01-6	ChemReage	2.5	0.5	L			

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
CDC01-00	Nitric acid	HNO3	7697-37-4	ChemReage	2.5	0.5	L			
CDC01-00	Sulphuric acid	H2SO4	SPGR 1.8	ChemReage	2.5	0.5	L			
CDC01-00	Burette digital	with Reserver		Equipment	4	3	pcs			
CDC01-00	Draft Chamber		DSS-157	Equipment	1		pcs			
CFL00-00	Refrigerator			Equipment	1	1	pcs			
CRE01-01	[AA] (Cd) standard solution	1000 mg/l	CA00410	EquipmentR	100	25	ml			
CRE01-01	[AA] (Co) standard solution	1000 mg/l	CO00120	EquipmentR	100	25	ml			
CRE01-01	[AA] (Cr) standard solution	1000 mg/l	CR02220	EquipmentR	100	25	ml			
CRE01-01	[AA] (Cu) standard solution	1000 mg/l	CO00850	EquipmentR	100	25	ml			
CRE01-01	[AA] (Fe) standard solution	1000 mg/l	HI03020	EquipmentR	100	25	ml			
CRE01-01	[AA] (K) standard solution	1000 mg/l	PO01050	EquipmentR	100	25	ml			
CRE01-01	[AA] (Li) standard solution	1000 mg/l	LI00600	EquipmentR	100	25	ml			
CRE01-01	[AA] (Mg) standard solution	1000 mg/l	MA00110	EquipmentR	100	25	ml			
CRE01-01	[AA] (Mn) standard solution	1000 mg/l	MA01110	EquipmentR	100	25	ml			
CRE01-01	[AA] (Pb) standard solution	1000 mg/l	PL01050	EquipmentR	100	25	ml			
CRE01-01	[FP] Standard Sol. for Ca	1000 PPM	Cat. 001	EquipmentR	100	100	ml			Ca
CRE01-01	[FP] Standard Sol. for K	1000 PPM	Cat. 001	EquipmentR	100	100	ml			K
CRE01-01	[FP] Standard Sol. for Li	1000 PPM	Cat. 001	EquipmentR	100	100	ml			Li
CRE01-01	[FP] Standard Sol. for Na	1000 PPM	Cat. 001	EquipmentR	100	100	ml			Na
CRE01-01	[Hach] Alkaline Cyanide Reagent	50 ml	Cat. 2122	EquipmentR	50	25	ml			
CRE01-01	[Hach] AluVer 3 (Aluminum Reagent)		Cat. 1429	EquipmentR	100	25	pcs			
CRE01-01	[Hach] Ammonia Cyanurate		Cat. 2653	EquipmentR	200	25	pcs			
CRE01-01	[Hach] Ammonia Salicylate		Cat. 2653	EquipmentR	200	25	pcs			
CRE01-01	[Hach] Ascorbic Acid		Cat. 1457	EquipmentR	100	25	pcs			
CRE01-01	[Hach] Nitriver-3 (Nitrite Reagent)		Cat.2107	EquipmentR	9	25	pcs			
CRE01-01	[Hach] PAN Indicator Solution	50 ml	Cat. 2122	EquipmentR	50	15	ml			
CRE01-01	[Hach] Spands reagent for fluorid	1000 ml	Cat. 444-	EquipmentR	1000	100	ml			
CRE01-01	[Hach] Spands reagent for fluorid	500 ml	Cat. 444-	EquipmentR	500	50	ml			
CRE01-01	[Hach] Sulfaver-4(sulfate Reagent)		Cat 2106	EquipmentR	100	25	pcs			
CRE01-01	[Hach] Sulfide 1 Reagent	100ml	Cat 1816	EquipmentR	100	50	ml			
CRE01-01	[Hach] Sulfide 2 Reagent	100ml	Cat 1817	EquipmentR	100	50	ml			
CRE01-01	[Hach] Tubetests for COD/20,000		PL456	EquipmentR	25	5	pcs			
CST01-00	Oven (High Temperature)		ELF1168	Tools	1		pcs			

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
CST01-02	Filter Paper 100 mm	100mm	Ref No. 1	Tools	990	250	pcs			
CST01-03	Filter Paper 150 mm	150mm	Ref No. 1	Tools	2500	250	pcs			
CST01-04	Filter Paper 200 mm	200mm	Ref No. 1	Tools	490	100	pcs			
CST01-05	Funnel glass	glass		Tools	4	2	pcs			
CST01-06	Funnel plastic	plastic		Tools	20	10	pcs			
CST01-07	Brushes for beakers			Tools	12	6	pcs			
CST01-07	Brushes for bottles			Tools	11	6	pcs			
CST01-07	Brushes for test tubes big size			Tools	11	6	pcs			
CST01-07	Brushes for test tubes small size			Tools	18	5	pcs			
CST01-08	Borosilicate bottles	glass		Glass Tools	4	12	pcs			
CST01-08	Borosilicate bottles	glass		Glass Tools	24	12	pcs			
CST01-08	D.W.Plastic bottle	300 ml		Tools	4	2	pcs			
CST01-08	D.W.Plastic bottle	600 ml		Tools	8	4	pcs			
CST02-00	Jar tester MJS-6N		MJS-6N	Equipment	1		pcs			
CST02-01	Pipette digital	Digital		Glass Tools	1		pcs			
CST02-01	Pipette, Graduated	1ml		Glass Tools	12	7	pcs			
CST02-01	Pipette, Graduated	2ml		Glass Tools	15	7	pcs			
CST02-01	Pipette, Graduated	5ml		Glass Tools	13	7	pcs			
CST02-01	Pipette, Graduated	10ml		Glass Tools	10	5	pcs			
CST02-01	Pipette, Graduated	25ml		Glass Tools	6	3	pcs			
CST02-02	Volumetric Flask	100ml		Glass Tools	27	13	pcs			
CST02-03	Volumetric Flask	250ml		Glass Tools	23	11	pcs			
CST02-04	Dropping Bottles brown glass	glass		Glass Tools	5	2	pcs			
CST02-04	Dropping Bottles glass	glass		Glass Tools	15	7	pcs			
CST02-04	Dropping Bottles Plastic	plastic		Glass Tools	5	2	pcs			
CST02-05	Pipette Filler			Tools	12	6	pcs			
CST02-09	Glass rod	Glass		Tools	9	5	pcs			
CST02-10	Heat stirrer		SB162	Equipment	2	1	pcs			
CST03-01	Hand Hold Conductivity\ TDS Meter			Equipment	3	1	pcs			
CST03-02	[Hach] Spare Sample Chamber For Spectroph			Equipment \$	1		pcs			
CST03-03	PH meter (HANNA)		HI 8424	Equipment	3		pcs			
CST03-03	[MM60R] (pH) electrode		Type GS	Equipment \$	2	1	pcs			
CST03-03	Manual for HANNA PH meter			Equipment \$	2	1	pcs			

PUBLIC WATER CORPORATION LABORATORY TOOLS, EQUIPMENT AND MATERIALS LOCATION

Location	Items	Specification	Model	Category	Quantity	LimitQ	unit	Maintena nce	Next Maintena nce	Remarks
CST03-04	Magnatic stirrer		ROTAMA	Equipment	2	1	pcs			
CST03-04	[Hach] Spare Sample Holder For Spectropho			Equipment \$	5	2	pcs			
CST03-06	[MM60R] (Cl) electrode		Type CL-	Equipment \$	2	1	pcs			
CST03-06	[MM60R] (DO) electrode		Type 0E-	Equipment \$	2	1	pcs			
CST03-06	[MM60R] (F) electrode		Type F-2	Equipment \$	2	1	pcs			
CST03-06	[MM60R] (N) electrode		Type N-3	Equipment \$	2	1	pcs			
CST03-06	[MM60R] (NH3) electrode		AE-2041	Equipment \$	2	1	pcs			
CST03-06	[MM60R] Filling solution for (NH3) electrode	RE-NH4	RE-NH4	EquipmentR	50	15	ml			
CST03-06	[MM60R] Outernal filling solution for (CL) ele	RE-2	RE-2	EquipmentR	80	25	ml			
CST03-06	[MM60R] Outernal filling solution for (DO) ele	R-9	R-9	EquipmentR	150	50	ml			
CST03-06	[MM60R] Outernal filling solution for (F) elec	KCL 1000C	KCL 1000	EquipmentR	100	25	ml			
CST03-06	[MM60R] Outernal filling solution for (N) elec	RE-3	RE-3	EquipmentR	100	25	ml			
CST04-00	Atomic Absorption		6300	Equipment	1		pcs			
CST04-00	[AA] Compressor		6	Equipment \$	1		pcs			
CST04-00	[AA] flame gas (C2H2)	C2H2		Equipment \$	1		pcs			
CST04-00	[AA] Flame Gas (NO2)	NO2		Equipment \$	1		pcs			
CST04-00	[AA] PC		hpL 1706	Equipment \$	1		pcs			
CST04-02	[AA] Lamp for Cd		L2433-48	Equipment \$	1		pcs			
CST04-02	[AA] Lamp for K		L2433-19	Equipment \$	1		pcs			
CST04-02	[AA] Lamp for Na		L2433-11	Equipment \$	1		pcs			
CST04-02	[AA] Lamp for Ni		L2433-28	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Co		L2433-27	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Cr		L2433-24	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Cu		L2433-29	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Fe		L2433-26	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Li		L2433-3N	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Mg		L2433-12	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Mn		L2433-25	Equipment \$	1		pcs			
CST05-01	[AA] Lamp for Pb		L2433-82	Equipment \$	1		pcs			
CST06-00	Flame Photometer		M410	Equipment	1		pcs			
CST06-00	[FP] Compressor		M815	Equipment \$	1		pcs			
CST06-00	[FP] Printer		DP104.01	Equipment \$	1		pcs			
CST06-01	[FP] Accessories	Some cables,		Equipment \$			pcs			

