



PAKISTAN EARTHQUAKE **SPECIMEN**

What is LSS

LSS is the abbreviation for;

**LOGISTICS
SUPPORT
SYSTEM**

LOGISTICS

In that it was designed to operate at emergency management headquarters, the facilities where national authorities are managing a disaster or emergency.

SUPPORT

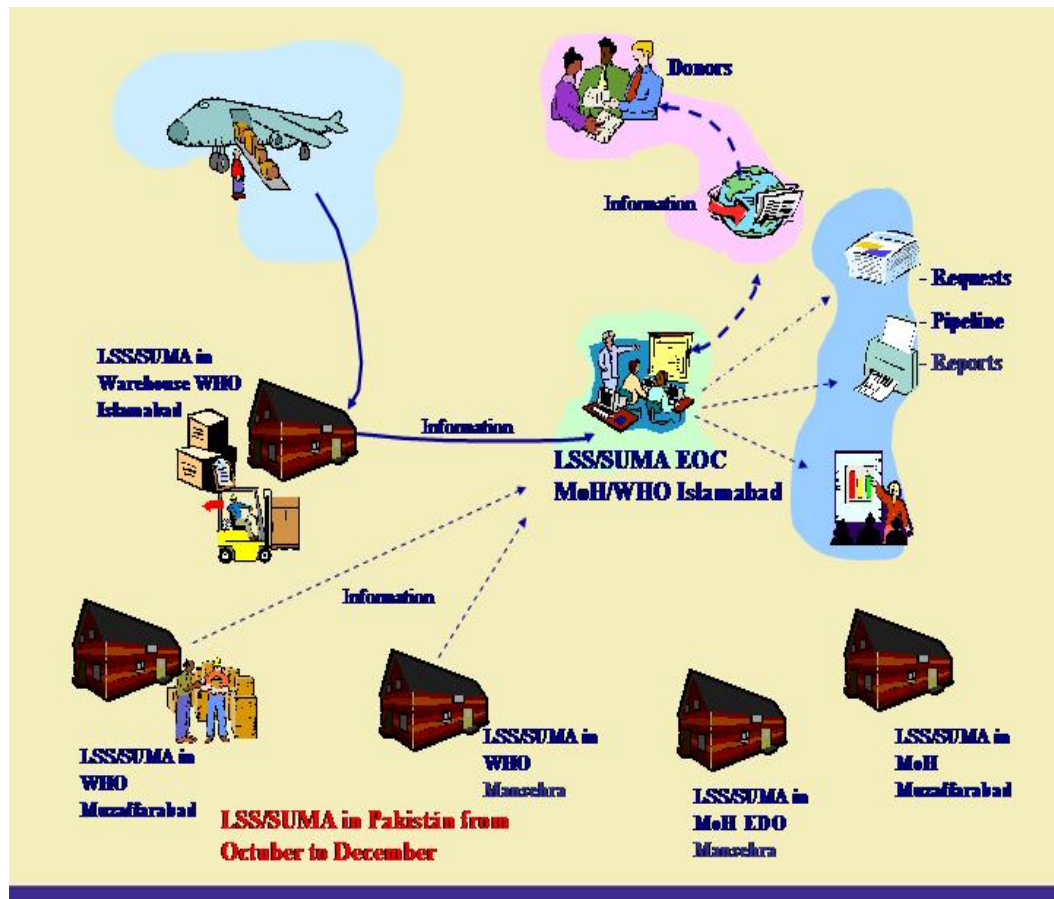
The main tasks are to establish the criteria to be used by the warehouse, consolidate the information, respond to queries, prepare reports to support the decision-making processes and promote inter-institutional coordination.

SYSTEM

It is an up graded and modified version of the SUMA – Supply Management System, a humanitarian Relief System which can simplify the main tasks of the headquarters.

PURPOSE OF LSS

The Logistics Support System improves transparency in the management of humanitarian supplies. Setting up the LSS system in emergency situations will enable reports to be prepared that can be shared with donors, authorities in a disaster - stricken country, humanitarian agencies and the media.



The LSS is not a tracking system, but provides national authorities, UN agencies and other coordinating bodies with an overall picture of what has been pledged, donated and purchased. In general a full view of all the items/drugs that have arrived in a location for a specific emergency.

Many large humanitarian agencies already have proprietary commodity tracking systems, the LSS can complement these agency-specific systems. In itself the LSS system can also be utilised to track up to District/Field Warehouse Level.

It can compile and report on data that is directly entered in its own databases as well as on information that is collected from other tracking systems.

APPLICATION OF THE SYSTEM

In the Warehouse setting the LSS/SUMA System is used to;

- a. Sort incoming supplies and label them
- b. Classify supplies by category and subcategory, and itemize them.
- c. Provide reports to selective queries about available items.
- d. Provide vouchers for recipients to sign as proof of delivery
- e. Prepare reports on deliveries to the field units.

The system can also preparing reports on stocks and deliveries, according to several criteria and categories, following up on the inventory of the warehouse. In this way, Headquarters can coordinate the internal management of relief supplies, their distribution to facilities or field units and other organizations involved in the Pakistan earthquake relief effort.



A number of countries, NGOs and six UN agencies - WHO, WFP, OCHA, UNICEF, UNHCR, and PAHO, have contributed their experience and expertise to develop the Logistics Support Systems.

LOGISTIC SUPPORT SYSTEM PAKISTAN EARTHQUAKE



| | |
|---|---|
| Geographic information | Population |
| Surface: 803,940 km ² | Population: 150.69 Millions |
| Higher point: Godwin Austen 8.611 m. | The GIP by inhabitant (US\$): 2,100 |
| Neighboring Countries: Irán, Afganistán, China, India | Density: 187.45 inhabitants/Km ² |
| Exits to the Sea: Indic Ocean | Average of age: 19.8 years |
| | Life expectancy: 62.2 years |

The LSS was introduced as early as October in the affected area of Mansehra and Muzaffarabad, the former was to be established as the nucleus of the operation but this did not materialized.

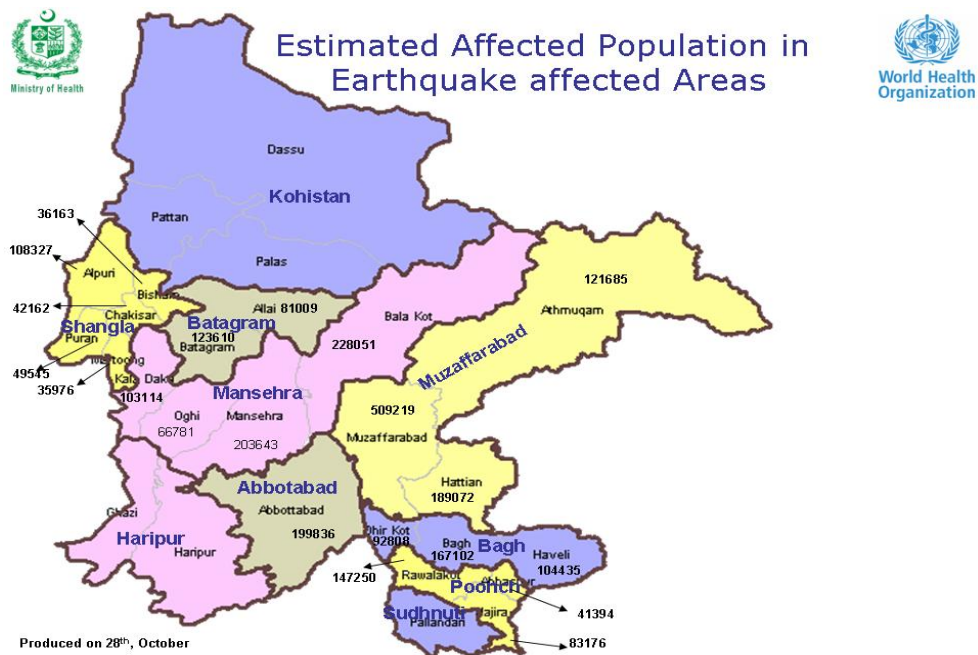
Later the LSS, Logistic Support System was setup and became operational in the WHO Islamabad warehouse in early November 2005. During the months November 2005 to February 2006 the system went through a number of changes and modifications to better meet the needs of the logisticians. But all of the requirements were not within the parameter of the licence authority.

The system categories were modified from ten (10) to four (04) and the subcategories dramatically reduced for ease and simplicity for the operatives. It allowed the operator to work faster using the system also this adoption was to fit the store man of the warehouse and logistician storage standards.

During this trial and error period four (04) persons were trained to use the LSS system. These were Muhammad Anwar, Warehouse Manager; Malik Nadeem, Assistant Logistician; Mohammad Haroon, Storage Manager for Essential Drugs and Azhar Hussain, IT Data Entry Operator.

A LSS intranet work system was then set up in the WHO Headquarters and this is very effective. This allowed full access of the Warehouse stock to all persons at or visiting the Islamabad Headquarters. If the requested funding was made available a web page would have been established allowing all Departments and Field Units to be aware of the categorized items and drugs in the Warehouse and the balance available for distribution.

A wireless net work was also established in the Warehouse for internal use, this was the initial move but the IT staff failed to capitalize in getting the Rawalpindi Warehouse and the Islamabad Headquarters connected. There is still hope.



MANSEHRA

The first logistics staffs at Mansehra of Jawad Malik, Admin/Finance; Muhammad Naveed Alam and Muhammadmehran Ajmal Tanoli, stores were trained in the operation of the LSS system on 25 - 26 November 2005. These persons did not remain employed with the WHO Office for a very long period and later a more comprehensive second training season was done.

This LSS/SUMA training was conducted 24 - 26 January 2006 with a final practical test. The logistics staff trained comprised of Muhammad Zia Ul Islam, WHO Storeman and Muhammad Ali, Logistics Assistant. Reports are expected to be posted in the share drive on a weekly basic.

The trainee instructors; Trisa Lusiandari and K Bile had the first opportunity to show their abilities and teaching skills while teaching the LSS system to the DHO and EDO Officers.

They needed to work more on their presentation techniques. Sound preparation, practice and acceptance of good constructed advice will help them to mature and transform their capabilities.

Self esteem and confidence are the catalyst to their advancement to the highest standards of instruction. If constantly utilised by WHO, even in the assistance to other Agencies, they can quickly achieve that goal. The LSS system could become one of the main accountable links among the humanitarian organizations.

BAGH

This LSS/SUMA training was conducted 4 - 6 January 2006, the Logistics Assistant Anjum Shakeel along with a representative from EDO Department were trained. Warehouse and Essential Drugs Management training was conducted to improve the standard of the storage in the warehouse.

ISLAMABAD

The LSS/SUMA work shop was conducted at PIMS for a selected group of Pharmacists from 30 January to 02 February 2006. A final practical exercise was successfully completed by the participants. They were presented with a certificate of participation in training on the Logistics Support System for the workshop prior to their assignment to the affected areas.

The trainee instructors; Trisa and Bile had another opportunity to show their abilities and skills. Their approach to supervision was of good standard. Their delivery indicated a good knowledge of the subject matter, hence they displayed more confidence. Well on the way to success.

Annex A shows a list of the under persons trained in the LSS, Storeroom and Essential Drugs Management and the allocation for their assignment to the indicated affected areas.

A Training of Trainers was conducted for the under listed to fulfil the increasing demand for the system.

Noureen Ghafoor CH
Romana Haneef
Muhammad Zia Ul Islam
Farook Omar Saeed
Muhammad Wasif Khaliq

MUZAFFARABAD

This LSS/SUMA training in this Field Office was conducted 21 – 24 February 2006 the Logistics Assistant Danish Hussain was trained. Warehouse and Essential Drugs Management training was introduced to further improve the good standard of storage in the warehouse.

Medical Institute of Sciences

The Abbas Medical Institute of Sciences was visited, there was a clear indication the hard work that has gone into the reorganization of the Pharmacy in this institution. The storeroom storage layout and organization have improved greatly. This was mainly due to the hard work and supervising abilities of the Pharmacists now stationed in there.

D H Storeroom

Pharmacist Noureen Ghafoor CH is supervising the task of sorting the drugs. The resident Pharmacist is providing little or no assistance to the cause. The sorted drugs were stored in a small tent erected outside the main storeroom. A second tent was erected for the storage of IV's, stored on the ground and partially covered.

On the completion of the sorting, inventory and repacking the computer stored at WHO will be handed over on loan and setup. Noureen Ghafoor CH will commence the training with the local Pharmacist and Storeman.

BALAKOT

LSS training conducted from 27 February to 1 March 2006. Training was provided for Mr. Malik Ali, assistant logistician. During this period, a short training session was also conducted for Peter, the new logistician on the ground.

Since there is no DSL network to connect the LSS system in the field with the one at WHO Head Quarters Islamabad, the field office will put a weekly LSS Excel Reports into the Shared Drive. In this case, the data could be accessed by the logistics staff in Islamabad and the other Field Offices.

PAKTEL Civil Hospital

Balakot Paktel Civil Hospital Site was visited and the storage facility for drugs in the Balakot temporally Hospital is very inadequate. The drugs were basically stored in two rooms, the Pharmacy and a used office. They were not arranged, sorted nor packed in any proper order. Dr Fida, Medical Superintendent Assured that adequate storage space will be provided on the completion of the new building now under construction. The Proposed storage areas were checked, confirmed and approved.

There is one Dispenser who is very busy occupied serving the many persons frequenting the clinics. At this time he can not be spared for any LSS training. The Pharmacist employed can be trained in the LSS over a period of time or at a later date, there neither computer nor printer at the Pharmacy to facilitate the training.

RAWALAKOT

The LSS training was conducted in Rawalakot from 07 - 08 March 2006. Michael and Dr Gamil conducted the LSS, Storeroom Management and Essential Drugs training with the DHO and CMH Pharmacist. While the LSS system and warehouse management in the WHO Store was introduced and implemented Trisa and Mr Almaswari

The under listed indicates the organizations and persons trained in the LSS system:

CMH Hospital

- a. Hakeem Alobeidullah
- b. Mushtaq Hussain

DHO

- a. Zahoor Ahmed
- b. Muhammad Sharif

W HO

- a. M. Yusof Hakhanzada

CMH Hospital

The CMH Hospital is the only operational Hospital in the area although it suffered some structural damage during the quake. It has two (02) storerooms for drugs, so far the Pharmacist, Abdul Sattar has assisted in the complete sorting and reorganizing one (01) room, and the other one is in the process of being organised.

The LSS system has not been installed because the lack of a computer and printer in the storeroom or Pharmacy. The computer donated by WHO to this location is being utilised for other purposes, however the system is to be temporary installed on an office computer.

DHO Department

Two (02) persons from this department were trained in the Logistic Support System but there is no computer available in the storeroom. The computer donated by WHO for the LSS application is being utilised differently by the EDO Headquarters.

There is an urgent need to have they store correctly organized, Dr Shabir, Head of Office, in co operation with their pharmacist have assured that the situation will be turned around by the LSS Team next visit.

BATAGRAM

The LSS system and warehouse management were introduced and implemented the in this WHO office on 13 - 14 March 2006. This WHO Field Office does not have a Storeman for the Warehouse and the logistician is presently operating in that capacity. Hence logistician, Sergio Quattrocchi and Mohammed Almaswari were trained in a partial basic LSS Course. They are able to operate the program as requested and more practices will improve their skills.

Michael and Dr Gamil conducted the LSS, Storeroom Management and Essential Drugs training with three persons from the EDO and DHQ offices.

DHQ Hospital

The LSS system was not installed in the storeroom, not only because of the lack of electricity, a computer and printer; but the drugs are in the purposes of being transferred to another location, when one becomes available. However the system is to be temporary installed on any available computer in one of the offices.

A computer will be provided by the Batagram Field Office after the storage is finalized to install the LSS system. This is an effort to improve, up grade and maintain their method of recording data of the drugs to reduce the possibilities of expiration.

EDO Department

Two (02) persons from this department were trained in a partial basic Logistic Support System Course. They now able to operate the program as requested and more practices will improve their skills in LSS. The computer donated by WHO is not in the storeroom due to the dusty conditions and the lack of electricity.

For security reasons system was installed in Dr Aqeel office where it is accessible by M Khan, druggist, and A Khan, store keepers who are able to operate the program as requested and more practices will improve their skills.

A Routine Warehouse Management Tasks was introduced to the store keepers and will be established and implement in both Departments.

RECOMMENDATIONS

The under captions are the suggested recommendations of the LSS Team for improvement and good of the Field Offices to be consideration by the WHO Headquarters.

GENERAL

1. The WHO Headquarters and Local Districts Health Authorities in co-operation with the Pharmacist are encouraged to make a distribution plan to meet the demands for Drugs and Medical supplies, in the Health Facilities in the affected areas.
2. A quick distribution action plan is established for drugs with approaching expiry dates to certify the usage of these drugs by or before the indicated dates.
3. All warehouses establish a routine warehouse management tasks for support staff.

4. Additional Drugs Manuals could be provided for the pharmacist to facilitate their work in the field such as BNF – British National Formulae Manual.
5. More Pharmacists are trained to meet the increasing demand for their services in some of the Field Offices and the Islamabad Warehouse.
6. All future LSS training should be done at the WHO Head Quarters Islamabad. When done at the field offices, the Asst Logisticians/Store persons are involved in their daily work and other activities which jeopardised the training.

A shorten version of the LSS Manual could be translated into the National Language to assist those persons who are not very fluent in English.

Muzaffarabad

1. The checking, storing and logging the drugs in the containers from MASH is certainly going to take along period of time, consideration should given to the extension of contracts of the Pharmacists involved.
2. WHO Headquarters provides refrigerators/coolers at Abbas Hospital for the storage of drugs which require special storage conditions.
3. WHO/DHO purchase or build shelves for installation in the second storeroom at the Abbas institution to facilitate proper storage.

Mansehra

1. A computer and printer are issued to Mansehra for installation of the LSS in the WHO Warehouse.

Balakot

1. Since Balakot is a Thisyl of Mansehra, the Pharmacist, Amer Hayat Khan, be permitted to train the store persons during the reallocation of the Balakot Pharmacies and Store rooms until one is allocated to that area.
2. If possible, a computer and printer should be made available to DHQ Hospital Balakot and the LSS system introduce after the reallocation and setup of the Pharmacies and Stores.

Rawalakot

1. The Pharmacist, Abdul Sattar, services continues until the reorganization of the DHO Warehouse is completed and a short period after to supervise the daily routine of the same.

2. If possible, another computer and printer should be made available to CMH Hospital to setup the LSS system to be utilized in both the storerooms and Pharmacy.
3. WHO/DHO purchase or build shelves for installation in the second storeroom at the CMH Hospital to facilitate proper storage.

Battagram

1. A Pharmacist services be made available to the DHO and EDO Departments in Battagram for the reallocation and organization of the drugs in the expected new warehouse.
2. WHO Headquarters assists the DHO Hospital by donating the printer to complete the package.
3. WHO Headquarters provides refrigerators/coolers at warehouse for the storage of drugs which require special storage conditions.
4. WHO/DHO purchase or build shelves for installation in the warehouse to be established for the Hospital to facilitate proper storage.

ADVANTAGES OF LSS IN PAKISTAN DISASTER

World Health Organization

The implementation of the Logistics Support System in the Pakistan Earthquake Disaster by the WHO Headquarters proved to be Successful. Not only was it introduced and implemented in all the WHO Offices but also in the DHO/DHQ and EDO Departments to monitor their drugs supplies.

As a result of this move, there is a greatly reduced possibility of the expiration of large quantities of drugs in these areas in the immediate future. In areas, some departments still has a lot of work to complete. With the assistance of the Pharmacists provided by WHO and good effective support from the Heads of Offices, it can be achieved over a period of time.

Hence it might be necessary to have more Pharmacists trained to meet the increasing demand. Secondly, the contracts of the assigned Pharmacists should be extended until independence in the areas is totally achieved.

Other Agencies

The capabilities and usefulness of the LSS was introduced to some of the other Agencies through presentations. It was quickly accepted and utilized by WFP/UNJLC, the major Logistical Data processing Department in the Pakistan Earthquake Disaster.

This system has also attracted the attention of some NGO's; it was implemented into the Red Cross at Mansehra on a trial basic.

This Disaster has been very fruitful for the Logistic Support System to prove itself, with a few minor amendments the relative young system is fast approaching adulthood.

Logistic Support System Trainer

Michael Greaves

Barbados

REQUIREMENTS OF THE AFFECTED AREAS

| SRL | LOCATION | ITEMS | | ACTION | REMARK |
|-----|---------------------|---------------|---------------------|--------|--------|
| | | WHO | DHO | | |
| 01 | BAGH | Nil | Storage Space | | |
| | | | Computer | | |
| | | | Printer | | |
| | | | BNF Manual | | |
| 02 | MANSEHRA | Computer | Computer | | |
| | | Printer | Printer | | |
| | | Shelves | BNF Manual | | |
| 03 | BALAKOT | Nil | Computer | | |
| | | | Printer | | |
| | | | Shelves | | |
| | | | Pallets | | |
| | | | BNF Manual | | |
| 04 | RAWALAKOT | Pallets | Computer (CMH) | | |
| | | Shelves | Printer (CMH) | | |
| | | | Shelves(CMH) | | |
| | | | Storage Space (DHO) | | |
| | | | BNF Manual | | |
| 05 | MUZAFFARABAD | Nil | Storage Space | | |
| | | | Pallets | | |
| | | | Shelves | | |
| | | | Refrigerator/cooler | | |
| | | | BNF Manual | | |
| 06 | BATAGRAM | Storage Space | Computer | | |
| | | Pallets | Printer | | |
| | | Shelves | Storage Space | | |
| | | | Pallets | | |
| | | | Shelves | | |
| | | | Refrigerator/cooler | | |
| | | | BNF Manual | | |

RAPID ASSESSMENT FORM

BHU'S(BASIC HEALTH UNITS)

Date: ----- **Name of Institution:** -----

Name of Senior Health Provider: -----

Designation of Health Provider: -----

Quantity of Treatments: -----

Average Daily output of Patients: -----

No/Designation of Health Provider:

1. -----

2. -----

3. -----

MAJOR HEALTH CONCERN:

Before:

After:

FAST MOVING DRUGS:

(1) -----

(2) -----

(3) -----

(4) -----

(5) -----

(6) -----

(7) -----

(8) -----

(9) -----

(10) -----

(11) -----

(12) -----

HMIS TOOLS

| SER | INVENTORY TOOLS | CONDITIONS | COMMENTS |
|-----|---|------------|----------|
| 1 | STOCK RECORD REGISTER 1. Stock Received 2. Stock Issued 3. Stock Balance 4. Narcotics 5. Others | | |
| 2 | BIN CARDS | | |
| 3 | TEMPERATURE SHEETS | | |
| 4 | REFRIGERATOR | | |
| 5 | METHODS OF PLACEMENTS 1. Alphabetically 2. Dosage Form 3. Pharmacological | | |
| 6 | FEFO ARRANGEMENT | | |
| 7 | DISPOSAL METHODS | | |

BULIDING/TENT CONDITIONS AND REQUIRMENTS:

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COMMENTS/SUGGESSTIONS:

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WHO/UNICEF