#### 4.3 Scheme of execution

4.3.1 Situation of the construction industry and work execution plan

Generally speaking, the technical level of construction workers of Sri Lanka is not so high, and furthermore there is shortage of skilled workers. Whenever good quality of work execution is desired in Sri Lanka, experienced foremen and/or a group of skilled workers are usually hired from neighboring countries in order to make up for the aforestated manpower and technical deficiencies to have them supervise the skill and work of the local workers to secure the required technical level. An arrangement such as this may be conceivable in executing this project, too. It would also be necessary to dispatch technicians from Japan to work on, assemble, install, and adjust the materials and equipment procured in Japan.

The production of construction materials in Sri Lanka is limited to just a few fields, and they rely mostly on imports because items suited for use are very rare. Therefore, it is particularly important to accurately identify the period of time required from the order to the delivery when procuring construction materials on the domestic market.

The scheme of execution of the construction work of this project will be drawn up by taking into consideration such factors as the work capacity of the local workers, time required to procure imported construction materials, weather conditions at the work site, and other pertinent factors, and the implementation schedule will be prepared accordingly.

- 113 -

# 4.3.2 Scope of Undertakings

Scope of the work to be undertaken by the Government of Sri Lanka and the Government of Japan are listed as follows:

<del>مەركىيە بىر بېرىيە بېرىيە بېرىيە بىر ب</del> ېرىيە بىرىيە بىر بىرىيە بىرىيە بىرىيە بىرىيە بىرىيە بىرىيە بىرىيە بىرىيە 19- يىرى بىر		
Item	Sri Lanka	Japan
(1) Infrastracture		
1. Site development	<ul> <li>To demolish, remove exist- ing buildings</li> </ul>	
	° To clear, level the site	
2. Water Supply	<ul> <li>To lead city water supply pipe into the site</li> </ul>	° To provide water supply system within the site
3. Drainage	<sup>o</sup> To connect drainage and sewage pipe to street main	<ul> <li>To provide drainage and sewage system within the site</li> </ul>
4. Electric Power	° To lead electric power supply line into the transformer sub-station in the site	° To provide electric powe distribution system with in the site
5. Telephone	<ul> <li>To lead telephone line to the main terminal panel</li> <li>To bear the charges in connection with the above 2. 3. 4. 5. requested by the authorities concerned</li> </ul>	° To provide main terminal panel and telephone sys- tem within the site
(2) Building	<ul> <li>To bear expenses and charges required to obtain the building permission</li> <li>To construct facilities other than those to be undertaken by Japan</li> </ul>	<sup>o</sup> To construct the facility with required utilities which is described in Article 4.2.2
(3) Outdoor	<ul> <li>To construct gate and fence</li> <li>To construct guard's house</li> </ul>	° To construct, pave the road and parking yard within the site
(4) Equipment	° To prepare the equipment other than those to be undertaken by Japan	• To provide the equipment which is listed in Artci cle 4.2.3

		· · · ·		
-				
		Item	Sri Lanka	Japan
	(5)	Furnitures and Fittings	° To prepare general fur-	
	1i.	1	nitures such as tables, chairs, carpet, curtain	
			etc.	
	(6)	Transportation of Construc- tion material and Equipment	• To ensure tax exemption and customs clearance at port of disembarkation	<sup>o</sup> To ensure marine trans- portation from Japan to Sri Lanka and internal transportation from port
				of disembarkation to the site
	(7)	Others	° To bear advising commis-	н. 
			sion of A/P and payment commission for the banking services based upon the	
			B/A	
			° To accord Japanese consul- tant and constractor such	
			facilities as may be necessary for their entry	
			into Sri Lanka and stay therein for the perfor- mance of their work	an a

# 4.3.3 Scheme for supervision of the work

(1) Scheme for supervision of the work

After the conclusion of the construction contract, the project manager and the field supervisor should go to the construction site in order to give the contractor the pertinent instructions, to conduct consultations and verifications related to the execution scheme, and to carry out all other necessary formalities.

After the commencement of the work, the supervisor should be permanently stationed at the project site to supervise the work. Moreover, the supervisor should present periodic reports on the state of execution of the work to the Embassy of Japan and the JICA office in Sri Lanka, as well as to the institutions concerned of the Government of Sri Lanka, and should take the initiative to coordinate the views of the parties concerned with this project, including the contractor, as well as to attain a complete understanding between them.

The project manager and the engineers in charge of the structure, utilities and equipment should go to the project site during the various stages of work in order to carry out spot supervision. The field supervisor should be stationed at the work site until the completion of the delivery procedure of the facilities and equipment.

The actual affairs of the supervision will be carried out by paying utmost attention to such aspects as the natural conditions, religion, customs and system prevailing in Sri Lanka, and by accurately identifying the technical level of the local workers. The supervision of the work is aimed at realizing a smooth progress of the construction with the best results, and at completing the project within the prescribed period of time.

The execution scheme should be drawn up after a minute examination of the steps of work by taking into consideration the construction

- 116 -

technique and capacity of the local industry, as well as the period of term for arrival of the construction materials procured in Japan at the proposed site, and the pertinent adjustments and approvals should be given on the basis of the results of the said examination. The items of supervision to be carried out in connection with this project are listed in the followings.

1. Advice and guidance related to the construction contract

To examine the qualification of the firms participating in the bid, to prepare and execute the bid, to evaluate the detailed statements of the offers, to recommend the contractor, to attend at the signing of the construction contract.

2. Inspection and approval of the execution drawings and the like

To inspect and approve the execution drawings, samples of materials, equipment, etc., submitted by the contractor.

3. Instruction and inspection of the work

To examine and instruct the execution scheme and steps of work, to identify and instruct the state of progress of the work, to conduct inspections required during the execution of the work.

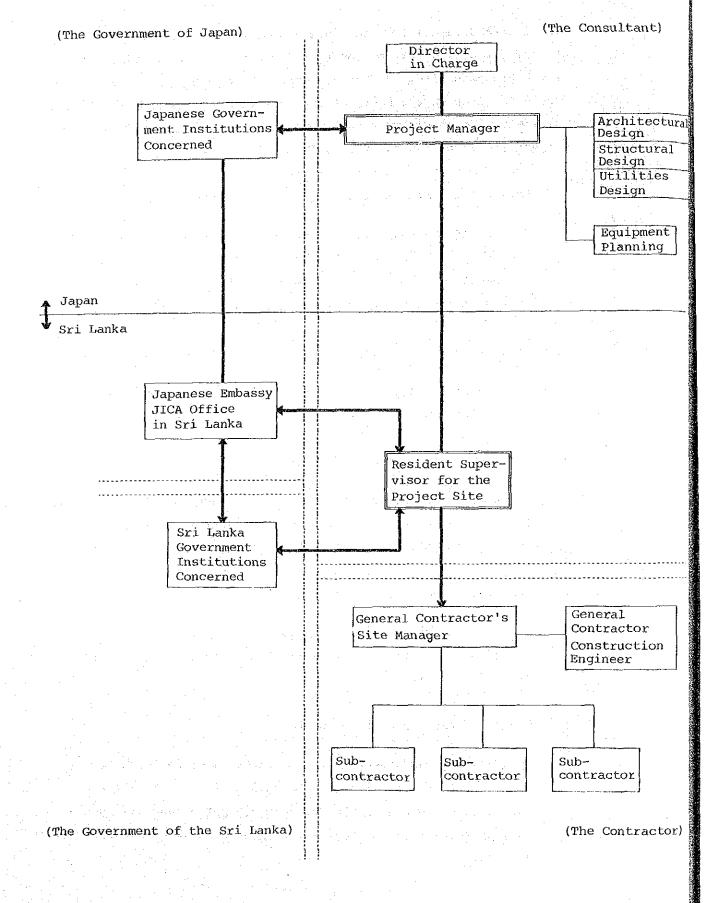
4. Approval of payments

To make inspection for verification of completed amount required for execution of payments during and after the completion of the work.

5. Report of the state of the work

To present periodic report on the progress of the work to the owner and to the institutions concerned of the Government of Japan, so as to contribute for a smooth performance of undertakings to be taken by the parties concerned of both Japan and Sri Lanka.

#### (2) Supervising Structure



- 118 -

# 6. Delivery of the facilities and equipment

Attendance at the formalities of delivery of the facilities in conformity with the contract, after verifying the satisfactory completion of the works according to the contracted conditions, and completion of the supervision work with the issuance of the certificate of acceptance of the owner. 4.3.4 Plan for procurement of equipment and materials

Of the available construction materials in Sri Lanka, those domestically manufactured are not so abundant, and are limited to such items as cement, sand, gravel, reinforcing bars, concrete blocks, bricks, roof tiles, slate, wood, plywood, tiles, etc. in the construction sector, and PVC pipes, hume pipes, wiring materials for low-tension systems, sanitary fixtures and the like in connection with utility installation, and all other items rely on imports. The main construction materials required in connection with this project will be procured in conformity with the plan shown in the followings, because there are problems of quality and supply in connection with some of the domestically manufactured products.

	Materials Procured in Sri Lanka	Materials Procured from Japan
Architectural	Gravel, Sand, Cement Concrete block Clay brick, Corrugated cement asbestus sheet, Ceramic Tile Glass, Paint	Reinforcing steel, Structural steel, Plywood for conc. form, Metal sash & door, Harware, Cement asbestos board, Gypsum board, Rockwool acoustic board, Plastic tile, Water proofing layer, etc.
Utility	Wire, PVC conduit Switch, Convenience Outlet	Wire, Lighting fixtures, Switch panel, Generator, PVC pipe, Valve, Faucet, Pump, FRP Reservoir tank and Elevated tank, Sanitary fixture, Refrigerating machine, Air-condition- ing units, Galvanized iron sheet, Insulation materials. Pre-fablicate type refrigerating and freezing room, etc.

Equipment for storing and distribution of medical supplies will be procured in Japan, because they are not manufactured in Sri Lanka in their totality. In connection with the selection of the materials and equipment, particular attention will be paid to the local maintenance system and to the ease of maintenance.

- 120 -

# 4.4 Project implementation schedule

The actual implementation of this project will occur after the Exchange of Notes between the governments of the two countries, referring to the grant aid of the Government of Japan for the implementation of the project. The project implementation schedule is described in the following, by dividing it into 3 main steps, detail design, bid and construction.

#### (1) Detail design

The agreement with the consultant will be signed immediately after the Exchange of Notes (E/N), in order to start the execution design. The bid documents will be drawn up by holding detailed deliberation on the detail design with the Sri Lankan authorities concerned, based on the Basic Design Study Report. Two months are expected to be required in this connection, and its completion is expected to be 3 months after the Exchange of Notes (E/N).

(2) Bid

Approximately 2 months are expected to be required for the sake of delivery of the bid documents and instructions, execution of the bid, evaluation of the offers, decision of the contractor, signature of the construction contract and commencement of the work, excluding such preliminary preparation steps as public announcement of the bid, pre-qualification of the bidders, etc.

#### (3) Construction

The construction will be started after the conclusion of the construction contract between the Government of Sri Lanka and the awarded bidder, with due approval of the Government of Japan. The construction work is expected to take approximately 14 months, and its completion is expected to be approximately 19 months after the Exchange of Notes.

# (4) Implementation Schedule

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Detail Design									[ . 									 			-
Preparation	·	·											·		<u></u>	1.11 					
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Construction Contract						•				· .			· · ·	· · .		1947 P		<u> </u>			
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Construction Contract, A/P						<b></b>															
		· · ·													-						
Construction			··	<u>-</u>																	[

Commencement

- 122 -

Completion

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4.5 Maintenance and Management Scheme

4.5.1 Administrative Structure

Medical supplies and equipment will be handled and stored more rationally and more efficiently concurrently with the improvement of the facilities and equipment, but the current systems for sorting and storing of the goods is assumed to remain untouched. Generally speaking, the existing personnel composition will be taken over as it is, and the new facilities will be operated with some minor personnel reshufflement, because the basic idea is to improve the work efficiency by making the most of the existing personnel instead of saving manpower by introducing mechanical equipment.

#### 4.5.2 Operation and Maintenance Cost

The maintenance costs required during the first year (1988), calculated by making use of data obtained on the occasion of the field survey, mount to the following sums.

Approximate Estimate of Maintenance and Operation Expenses

1.	Personne1	Rs 6,054,900
2.	Travel and Transportation	237,300
3.	Stationery and Office consumables	93,000
4.	Communication	153,600
5.	Fuel, Light and Water	750,820
	1) City water Rs 54,950	
	2) Electric power 656,470	
	3) Fuel 39,400	
6.	Vehicle maintenance	530,400
7.	Office equipment maintenance	31,000
8.	Consumables	39,500
9.	Others (Rental fee, Tax etc.)	129,100

Total

The budget of the MSD for 1988 is expected to mount to Rs 7,972,000.

There is no conspicuous difference between the result of the trial calculation of the maintenance and control costs shown above and this expected budget, and therefore it is presumed that there is no obstacle to the operation of the project from this standpoint.

4.	6 Approximate Estimate of Cost of Works to be		
	6 Approximate Estimate of Cost of Works to be Government of Sri Lanka	undertak	en by the
1)	Demolishing Work		
	1. Demolishing of existing stores and		Rs 679,000
	leveling the ground	. 1	
	2. Demolishing of existing administration		Rs 824,000
· .	building and leveling the ground		
la de la companya de	Sub-total		<b>T</b> 1 500 000
	Sub-cocal	. <sup>1</sup>	Rs 1,503,000
2)	Construction of a second 1		<b>n</b> 10 000
( 2	Construction of a guard's house		Rs 18,000
2)	Out door work		
3)	Outdoor work		
	1. Construction of gate and fence		n 120 000
	<b>0</b>		Rs 120,000
	2. Gardening		Rs 150,000
	Sub-total		Rs 270,000
4)	Infrastructure	· .	· · · ·
		. · · · ·	
	1. Leading electric power into the site		Rs 457,000
	2. Leading telephone line into the site		Rs 300,000
·	Sub-total.		Rs 757,000
5)	Others		
	1. Charge for the building permission		Rs 15,000
	2. Customs clearance charge for		Rs 260,000
	construction materials		
		· .	Rs 275,000
	Sub-total		
			Rs 2,835,000
	TOTAL	(	¥18,625,000)

#### CHAPTER 5 PROJECT EVALUATION

5.1 Social Impact

The new facilities attach importance mainly to the storing of medical supplies, and have to function as a keystone for proper storage of medical supplies and equipment in Sri Lanka, through the incorporation of function required to fulfill the temperature conditions for proper storage of medical supplies of various kinds, and by improving the work efficiency through the introduction of rational storing systems.

- (1) The consolidation of a system able to realize stable distribution of medical supplies of good quality is particularly significant because it helps to solve a long overdue problem in the medical care field of Sri Lanka, and moreover it is expected to make substantial contribution in connection with the attainment of one of the goals of the medical care improvement program.
- (2) The Pharmaceutical Formulation Centre of Essential Drugs of the SPC for manufacture of essential drugs, which is being constructed at the present time, has the purpose of securing the stable supply of essential pharmaceutical drugs of good quality, through the domestic production of items that are currently relying on imports. Since the plan calls for delivery of 60% of its output to MSD, these facilities are indispensable for it to store and distribute these drugs without deteriorating their quality. Thus, the two cooperation projects to be implemented with the grant aid of the Government of Japan complement each other, and their synergistic effects are expected to achieve a satisfactory result.
- (3) The efficiency of both office work and distribution work will improve as a result of the centralization of the storage and distribution functions of medical supplies, and as a consequence it will be possible to promptly cope with requests of supply of pharmaceutical drugs.

- 127 -

As can be seen, it may safely be said that this project will make substantial contributions to the improvement of the health care of the people of Sri Lanka through the stable distribution of medical supplies of good quality to national and public medical institutions all over the country. 5.2 Economic and Financial Evaluation

The following effects of economic nature are expected to be brought about as a result of the realization of facilities provided with appropriate functions indispensable for storage of medical supplies and equipment, and the proper operation of these facilities.

(1) It is presumed that most of the economic losses, consisting of quality deterioration and loss of effectiveness of medical supplies, unavailability for use and discarding due to expiration of period of validity and damage of containers, etc., caused by the inadequacy of the existing storing facilities, can be prevented through the construction of storing facilities equipped with appropriate functions for storing of medical supplies and equipment, and proper operation of these facilities.

As a matter of fact, a loss of Rs 19,958,360 against total expenditures for procurement of drugs amounting to Rs 1,201,973,253, which is equivalent to 1.66%, has been reported during the 1980-1984 period. The magnitude of this economic loss can be readily recognized when comparing it against MSD's operating expenditures of Rs 16,275,878 during the same period.

- (2) Conspicuous improvements in the transportation efficiency and saving of transportation costs, including fuel cost and maintenance expenditure, are expected as a consequence of the centralization of the facilities for storage and distribution of medical supplies and equipment, as well as strengthening of the transportation equipment.
- (3) As for the maintenance and operation cost of the project, the MSD budget for 1988, which is the year when the facilities of this project will start their operation, was estimated on the basis of the sum of the 1986 budget presented by the MSD to the survey team, and it was concluded that the obtained sum is sufficient to cope

with the expenditures calculated in section 4.6. Therefore, it is presumed that there is no problem in connection with the operation of the project.

(The calculated expenditures mount to Rs 8,019,620.-, and on the other hand the expected budget of the MSD mounts to Rs 7,972,000.-).

#### 5.3 Executing and Operating Structure

Since the implementation of this project has long been a pending issue with the Government of Sri Lanka, the executing agencies including the Ministry of Health manifest extreme eagerness to realize it. Even though the existing organization and staff composition of MSD will be succeeded as the executing system, no problem is foreseen in operating the project since the facilities and equipment will be much more easier to operate than now as they will be renovated to more rational ones.

# CHAPTER 6 CONCLUSION AND PROPOSITIONS

#### 6.1 Conclusion

As can be seen, this project can be regarded as part of the efforts aimed at improving the health care level of the people that are being implemented in Sri Lanka. Public facilities for storing and distribution of medical supplies and equipment are playing a key role in the realization of the targets of the Government of Sri Lanka, and this project will be particularly significant in this connection. Moreover, it may safely be said that the contents of the project are appropriate from both economic and technical standpoints, because it is planned by taking into consideration the current technical level of Sri Lanka, so as to facilitate the future maintenance and administration. Such being the case, it is concluded that the implementation of this project is perfectly significant from the standpoints of its appropriateness and socio-economic impact.

It can be concluded that this project will make substantial contributions to the improvement of the medical care and health improvement of the people of Sri Lanka, through its contribution to the appropriate distribution of medical supplies and equipment in association with the medical care policy being implemented by the Government of Sri Lanka.

#### 6.2 Propositions

- Measures should be taken to realize the correct use and to improve (1)the administrative level of the facilities of the Central Store designed this time, through the perfect comprehension of the characteristics and functions of the storing systems, equipment and facilities, so as to make the most of the planned storage and dis-In concrete terms, a perfect floor control tribution functions. should be carried out based on the basic concepts of orderdiscipline-cleanliness, and technical training should be implemented for correct operation of the facilities and equipment. The basic principles in connection with the goods stored in the Central Store should be careful and efficient handling to prevent losses and damages. Workers of the Central Store should be submitted to education programs referring to the following items, and supervision should be carried out to secure the implementation of the work methods taught therein.
  - Loading and unloading methods of the goods to and from the lorry on the occasion of the acceptance and issue.
  - Stacking method of the goods on pallets and lorries efficient stacking, free of collapse and damage.
  - Orderly storing method with clear definition of the storing places, in order to facilitate the store and accurate pick-up of the goods.
  - 4) Establishment of the basic policy for accurate acceptance inspection on the occasion of the arrival of the goods, orderly sorting and identification control of the goods, and accurate stocktaking method, for the sake of efficient and easy inventory control.
  - 5) Preparation of the basic manual related to the distribution and control works of the warehouse, based on the aforestated considerations.

- 132 -

- (2) Proper transportation and storage are essential to secure the quality of the medical supplied during the distribution process, and in this connection it is desirable to fill up and improve the transportation equipment and the facilities for DDS.
- (3) Measures should be taken to make the most of the facilities of the Central Store at all times, and furthermore studies referring to the following aspects should be carried out in order to cope with the future increase in the volume of goods to be stored.
  - 1) Reduction of the lots carried into the Central Store at each time through the increase of the delivery frequency from supplies in order to shorten the period of stay of the goods in the storehouse, reduction of the quantities of goods stored at one time through the adjustment of the epochos of delivery of the goods from the suppliers, and measures to issue the goods from the Central Store shortly after their arrival.
  - 2) Revision of the storing and control system becomes particularly important when the inventory becomes large. In other words, shift to the storing and control system planned in conformity with a classification criteria based on the quantities of the various goods being stored will be required, by centralizing the arrangement of the storage equipment by function, so as to improve the storage efficiency based on the characteristics of each storage equipment.

- 133 -

# APPENDIX

# ΑΡΡΕΝΔΙΧ

Appendix	I Basic Design Survey	A-01
I1	Members of the Survey Team	· · · · · · · · · · · · · · · · · · ·
I-2	Survey Schedule	
I-3	Minutes of Discussions	1
I-4	Names of Officials Concerned	
	in Sri lanka	A-13
Appendix	II Collected Data	A-15
II-1	Budget Estimates 1986	
	for the Government	A-16
II-2	Budget Estimates 1986	
	for Ministry of Health	A-17
II-3	Budget Estimates 1986	
	for Medical Supplies Division	A-20
II-4	Quantity of Medical Supplies and Equipment	
	to be handled by Medical Supplies Division	A-22
II-5	Quantity of Vaccines to be stored	
	in the Central Store	A-35
II-6	Particulars of Viehicles in MSD	A-37
II-7	Survey Drawing for the Project Site	A-38

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# Appendix I Basic Design Survey

I-1 Members of the Survey Teams

1)	Basic Design Su	rvey Team	
	Leader	Hironao SUZUKI	Head First Basic Design Study Division Grant Aid Planning and Survey Department, Japan International Cooperation Agency
	Administration planning for medical supply	Kenji YAMAKAWA	Assistant Director Pharmaceutical and Chemicals Safety Division, Pharmaceutical Affairs Bureau, Ministry of Health and Welfare
	Architectural planning	Yasuchika NISHIJIMA	Chief Architect Architectural Department, Raymond Architectural Design Office, Inc.
	Architectural designing	Akimoto TAKESHITA	Architect Architectural Department, Raymond Architectural Design Office, Inc.
	Utilities planning	Hiroshi SUGIMOTO	Engineer Utilities Department, Raymond Architectural Design Office, Inc.
	Distribution and Equipment planning	Yoshiaki MAKINO	Chief Consultant Distribution Department, JMC Consultants Inc.
2)	Draft Report Ex	planation Team	
	Leader	Mikio NAKAMURA	Deputy Head First Basic Design Study Division, Grant Aid Planning and Survey Department, Japan International Cooperation Agency
	Architectural planning	Yasuchika NISHIJIMA	Chief Architect Architectural Department, Raymond Architectural Design Office, Inc.
	Distribution and Equipment planning	Yoshiaki MAKINO	Chief Consultant Distribution Department, JMC Consultants Inc.

# I-2 Survey Schedule

# (1) Basic Design Survey Team

	Date		Place	Activity
1	Jan. 20 (Mon)			Tokyo(JL 719) Singapore
2	Jan. 21 (Tue)			Singapore(SR 163) Colombo
3	Jan. 22 (Wed)	A.M. P.M.	JICA, Embassy of Japan EDR/MOF MOH UDA	Courtesy call and explanation of the survey schedule - Ditto - Courtesy call, discussion on the survey schedule Courtesy call
4	Jan. 23 (Thu)	A.M. P.M.	MOH MSD	Confirmation of the contents of request Confirmation of the function, organiza- tion & activities of MSD
. 5	Jan. 24 (Fri)	A.M. P.M.	MSD CDS	Field survey of the Project site & CDS at Deans Road Observation of other 3 CDS in Colombo
6	Jan. 25 (Sat)	A.M. P.M.		Observation of Madampe DDS & Hospital, and Sri Jayewardenepra General Hospital
7	Jan. 26 (Sun)	• • • • • • • • • •		Observation of Peradenia Teaching Hos- pital & Kandy DDS
8	Jan. 27 (Mon)	A.M. P.M.		Observation of SPC Store Complex Observation of Colombo General Hospital and Bio Medical Engineering Unit
9	Jan. 28 (Tue)	А.М. Р.М.	MSD MSD	Disseussion on the Project, survey on procurement and distribution system of medical supplies & equipment Discussion of Draft Minutes
10	Jan. 29 (Wed)	A.M. P.M.	MSD ERD MSD	Confirmation of the matters discussed Discussed the Minutes Collection of data on distribution of medical supplies equipment
11	Jan. 30 (Thu)	А.М. Р.М.	MSD Embassy of Japan MOH Embassy of Japan	Collection of data on distribution of medical supplies equipment Courtesy call to Ambassador and report- ing on progress of the field survey Discussion on the Minutes Meeting
12	Jan. 31 (Fri)	A.m. P.M.	MOH JICA MSD	Signing of the Minutes Repoting on progress of the survey Confirmation of the requirement for the facilities for the Project
13	Feb. 1 (Sat)	A.M. P.M.	MSD	Confirmation of the requirement for the utities & equipment for the Project Collection of data & information relate to construction

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	Date		Place	Activity
14	Feb. 2 (Sun)			Compiling the matters discussed, data and information
15	Feb. 3 (Mon)	A.M.		Discussion on distribution of medical supplies and equipment, confiremation of the contents of discussion Collection of data & information relate to construction
16	Feb. 4 (Tue)			Compiling contents of discussion and da
17	Feb. 5 (Wed)	A.M. P.M.	MSD	Confirmation contents of discussion Collection of data & information; vis- ited Fire Dept., Survey Dept., etc
18	Feb. 6 (Thu)	A.M. P.M.	JICA Embassy of Japan	Reporting on the result of the survey - ditto -
19	Feb. 7 (Fri)	A.M. P.M.	MSD	Final meeting with MSD Colombo(TG 308) Bangkok
20	Feb. 8 (Sat)			Bangkok(JL 474) Tokyo
•		<b>_</b>		<u></u>

# (2) Draft Report Explanation Team

 	Date		Place	Activity
1	Apr. 21 (Mon)			Tokyo(UL 453) Colombo
2	Apr. 22 (Tue)	A.M. P.M.	JICA,Embassy of Japan ERD MOH MSD	Courtesy call, explanation of the draft final report and deliberation on the schedule. Courtesy call Courtesy call, presenting the draft final report and deliberation on the schedule. Curtesy call and explanation of the draft final report.
3	Apr. 23 (Wed)	А.М. Р.М.	MOH MSD MOH	Explanation of the basic design, delib- eration on the draft final report and Minutes. Preparetion of Minutes Signing of Minutes
4	Apr. 24 (Thu)	A.M.	MSD .	Supplemental explanation on the basic design and confirmation of the schedule for the preparatory work undertaken by Sri Lanka.
5	Apr. 25 (Fri)	A.M. P.M.	JICA,Embassy of Japan MSD	Reporting on the result of the survey Final meeting with MSD
6	Apr. 26 (Sat)			Collection of data and compiling con- tents of discussion
7	Apr. 27 (Sun)			Colombo(TG 308) Bangkok
8	Apr, 28 (Mon)			Bangkok(TG 640) Tokyo

# I-3 Minutes of Discussions

(1) Basic Design Survey

### MINUTES OF DISSIGNENS THE CONSTRUCTION PROJECT OF CENTRAL SAME FOR (EDICAL SUPPLIES SEQUIPMENT IN THE DEMOCRATIC SOCIAL'S' REPUBLIC OF SRI LANKA

In response to the request of the Sovernment of the Democratic Socialist Republic of Sri Lanka, the Government of Japan decided to conduct a basic design study on the construction project of the Central Store for Medical Supplies & Equipment (herein after referred to as "the Project"), and entrusted the study to the Japan International Co-operation Agency (JICA). JICA sent to Sri Lanka the Study Team headed by Mr. Mironao -Suzuki, Mead of the First Basic Design Study Division, Grant Aid Planning & Survey Department, JICA from January, 20 to February 3, 1985.

The team had a series of discussions on the Project with the Officials concerned of the Government of the Democratic Socialist Republic of Sri Lanka headed by Dr. Malinga Fernando, Secretary, Ministry of Health and conducted a field survey in Colombo.

As a result of the study, both parties agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

Mr. Mironao Suzuki,

The Basic Design Study Team, J I C A.

Jan 31 March, 30, 1986.

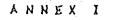
Dr. Malinga Fernando, Secretary, Ministry of Health.

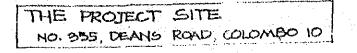
- 1. The objective of the Project is to improve the present conditions of storing and distribution and to consequently ensure the proper and effective function in the supply of medical drugs and equipment to the users by accomodating modern and equipped facilities.
- The site of the Project is located within the property of Ministry of Health at No. 355 Deans Road, Colombo 10, as shown in Annex I.

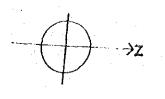
The site occupying approximately 2 Acres will exclusively be used for the Project.

- Medical Supplies Division of Ministry of Mealth is responsible for the administration & execution of the Project.
- . The Japanese Study Team will convey to the Government of Japan the desire of Sri Lanka Government that the former takes necessary measures to cooperate by providing the building & other items listed in Annex II within the scope of Japanese economic co-operation programme in Grant form.
- 5. The Sri Lanka side has understood Japan's Grant Aid System explained by the Team which includes a principle of use of a Japanese Consultant Firm and Japanese General Contractor for the construction.
- 6. The Government of the Democratic Socialist Republic of Sri Lanka will take necessary measures listed in Annex III on condition that the Grant Aid would be extended to the Project.

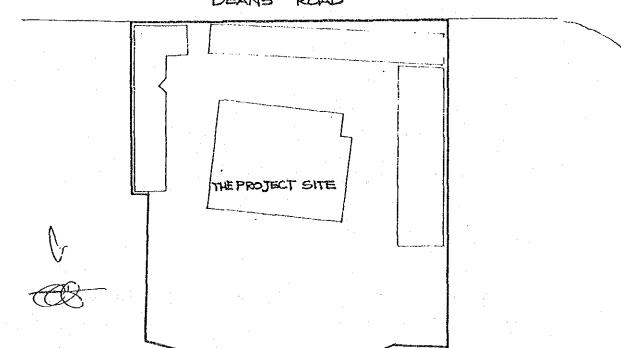
... 3







DEANS ROAD



A--08

#### ANNEX II

Items requested by the Government of the Democratic Socialist Republic of Sri Lanka are as follows:--

1. Construction of Building for storing and distribution with:

- 1) Cool room
- 2) Freezer
- 3) Special room for Narcotic & powerful drugs.
- 4) Preparation room for mixture.
- 5) Room for receiving, unpacking, packing and issuing.
- 6) Truck berth.
- 7) Administration office.
- 8) Rest room.
- 9) Meeting room.
- 10) Workshop.
- 11) Other necessary facilities.
- Required ancillary facilities such as water supply, drainage electricity etc. including lift and inter communication system.
- 3. Equipment:
  - 1) Fork lift trucks.
  - 2) Racks and pallets.
  - 3) Other necessary equipment.
  - 4) Request was made by the Sri Lankan Authorities that 15 lorries 5 tons capacity be provided for transport to drugs from State Medical Stores to Divisional Drugs Stores. as We making [

ANNEX III;

The Government of the Democratic Socialist Republic of Sri Lanka

will take necessary measures on the following matters: approval of

- 1) To secure/building plan.
- 2) To secure a lot of land for the Project.
- 3) To clear, fill and level the site before commencement of the construction.
- 4) To remove the existing buildings.
- 5) To undertake incidental out=door works such as gardening, fencing, gates and exterior lighting in and around the site.
- 6) To provide facilities for distribution of electricity, water supply, telephone, drainage and other incidental facilities to the Project site.
  - 1) Electricity distributing line to the site.
  - 2) City water distribution main to the site.
  - 3) Drinage city main to the site.
  - 4) Telephone trunk line to the main distribution panel of building:
  - 5) General furniture such as carpets, curtains, tables, chairs and others.
- 7) To bear commissions to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement.
- 8) To ensure prompt unloading, tax exemption custom clearance at Port of disembarkation in Sri Lanka.
- 9) To accord Japanese Nationals whose services may be required in connection with the supply of products and the services under the verified contract such facilities as may be necessary for their entry into Sri Lanka and stay therein for the performance of their work.
- 10) To maintain and use properly and effectively that the facilities constructed and equipment purchased under the Grant.
- 11) To bear all the expenses other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and the installation of the equipment.

#### (2) Draft Report Explanation

MURUES OF DESCUSSIONS

The Draft Final Report of the Manie Design Study

OT1

The Construction Project of the Contral Store for

Medical Supplies and Equipsont

in

The Democratic Socialist Republic of Sri Lanka

In response to the request made by the Government of the Democratic Socialist Republic of Sri Lanka for a grant aid for the Construction Project of the Central Store for Medical Supplies and Equipment in Sri Lanka (hereinafter referred to as -"the Project"), the Government of Japan decided to conduct a basic design study on the Project and entrusted the study to the Japan International Cooperation Agency (J 1 C A ). JECH sent to Sri Lanka the team headed by Mr. Hironao SUZUNI, Moni, First Basic Design Study Division, Grant Aid Planning and Chuly Department, JICA, from January 20th to February Oth, 1986.

As a result of the study, JICA prepared a Draft Report and despatched a team headed by Mr. Mikio NMKANDA, Deputy Head, First Basic Design Study Division, JICA, to explain and discumit with the relevant authorities of the Government of Sri Langufrom April 21st to 28th, 1986.

Both parties had a series of discussions on the Report and agreed to recommend to their respective Governments that the major points of understanding reached between them, antaches herewith, should be examined towards the realization of the Project.

23th April, 1986

Mr. Mikio NAKAMURA Leader of The Basic Design Study Team, JICA,

Dr. Malinga Fernando, Secretary, Ministry of Health, SRI LADRA.

### ACHMENT

- Both parties agreed to reconfirm the Minutes of Discussion which was mutually signed on March 30, 1986.
- 2. The Sri Lanka side has agreed in principle to the basic design proposed in the Draft Final Report and appropriate alterations agreed upon during the discussions will be incorporated in the Final Report.
- 3. The Sri Lanka side understood Japan's grant aid system and the avrangement to be taken by the Sri Lanka side for realization of the Project.
- The Final Report (10 copies in English) will be submitted to the Sri Lanka side by the end of May, 1986.

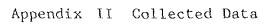


1.4 Names of Officials concerned in Sci Lanka

(1) Ministry of Health (MOR) Dr. Malinga Fernando Secretary Health Dr. George Fernando Deputy Director General, Dept. of Health Services Dr. A.V.K.V. De Silva Epidemiologist Mr. F. Lafir Manager, Computer Service Bureau (2) Medical Supplies Division (MSD) Mr. N.W.E. Wijewantha Director Mr. V. Velayuthampillai Assistant Director Mr. D.M.D.S. Chandrasiri Assistant Director Mr. R.D.S.C. Tillekerathne Assistant Director Mr. Rev. Gomez (3) Department of External Resources, Ministry of Finance and Planning Mr. S.Weerapana Assitant Director (4) Colombo General Hospital Dr. Donald W. Abeysundera Director (5) State Pharmaceutical Corporation (SPC) General Manager Mr, Senaka Jayawickyama – Manager, Store Complex Mr. M.T. Fernando (6) Urban Development Authority (UDA) Director, Planning Mr. N.D. Dickson Mr. P. Gunawardena Deputy Director, Planning (7) National Building Research Organization Senior Scientist, Mr. K.S. Senanayake Social Division (8) Municipal Engineer's Department Deputy Municipal Engineer, Mr. K.T. Kanagasingham Water Supply and Drainage Superintending Engineer, Mr. S.G.V.D.H. Gunaserera Water Supply (Drawing office) Mr. Pallie (9) Ceylon Electricity Board (CEB) Planning Engineer Mr. J. Perara

(10) Fire Service Department

Deputy Chief Officer Mr. K.D.B. Udugama (11) Embassy of Japan in Sri Lanka Ambassador Mr. Hiroshi Otaka Extraordinary and Plenipotentiary Councilor Mr. Mitsuaki Kojima First Secretary Mr. Yutaka Amino First Secretary Mr. Mitsunori Itami Second Secretary Mr. Yuichiro Hirano (12) Japan International Cooperation Agency, Colombo Office Director Mr. Jiro Hashiguchi Assistant Resident Mr. Testuo Amagai Representative



DAILY NEWS - Nobember 6,1985

# **Budget Estimates 1986**

HEAD	MINISTRY	RECURRENT	CAPITAL	TOTA
113	Department not			· · · · ·
. 2	rouped under Ministries	183,327	293.280	476.60
14- 38	District Ministries	32.291	482,300	\$14.59
39- 47	Defence	3,324.352	2,110,450	5,840.80
- 48	Foreign Affairs	315,096	50,450	365,54
	Plan Implementation	185,751	442,228	607,97
51~ 58	Lands & Land Development	358,662	1,375,933	1,734,59
	Trade and Shipping	153,927	47,245	201,17
70- 72	Education	3,596,691	521,064	4,117,75
	Higher Education	401,693	618,800	1,020,49
77- 78	Power and Energy	65,463	1,190,443	1,255,90
81- 82	Labour	82,168	9,046	91,21
	Public Administration	2,779,403	9,550	2,788,95
	Rural Development	14,960	6,705	21,66
90-95				
	Construction	614,307	1,721,363	2,335,67
97-100		106,550	33,888	140,43
02-110	Finance and Planning			,
	(See Below)	15,493,080	11,689,490	27,182,57
13-116	Transport	828,581	1,085,411	1,913,992
	Transport Boards	154,058	1,420	155,478
18-119		3,243	1,800	5,04
-120	• •	7,922	211,990	219,912
21-130	Justice	309,977	354,006	663,983
		202,211	334,000	003,30.
31-134	Agricultural Development	424 221	554 202	988,674
36 137	& Research	434,371	554,303	
	Fisheries	52,118	234,000	286,118
	Mahaweli Development	255,764	3,450,130	3,705,894
	Youth Affairs & Employment	275,728	179,010	454,738
	Rural Industrial Development	77,821	140,790	218,611
	Posts & Telecommunications	807,586	731,185	1,538,771
-121	Health	1,762,660	400,389	2,163,049
-152	Women's Affairs	413.131	130.000	
**	& Teaching Hospitals	513,174	130,000	643,174
	Indigenous Medicines	. 67,461	23,360	90,821
55-158		247,254	72,367	319,621
59-161	Social Services	2,165,892	7,334	2,173,226
	Cultural Alfairs	44,616	39,947	84,563
	Parliamentary Affairs & Sports	22,559	4,225	26,784
70-173	Food & Co-operatives	160,474	7,336	167,810
	Textile Industries	41,776	54,171	95,947
	Coconut Industry	1,808	178,605	180,413
	Regional Development	9,276	15,900	25,176
	Highways	353,004	663,601	1,016,605
	Janatha Estates Development	1,096	269,975	271.071
	State Plantations	0,502	5,000	5,502
	Home Affairs	303,600	14,600	318,200
	Rehabilitation	0,756	-	0,756
	Ministry without Porfolio	0,634	0,025	0,659
-194	National Security	2,712	559,905	562,617
-195	Security of Commercial			
	Establishments	5,856	0,980	6,836
	Total	37,000,000	30,000,000	67,000,000

Finance and Planning Amounts include Public Debts and Miscellaneous items.

	Recurrent	Capital	Total
Public Debts	9,227,629	7,134.933	16,362.562
Miscellaneous	5,841.660	4,443.875	10,285.535
Finance & Planning	423.791	110.882	<b>534.473</b> ,

				20.36%				16,59%		ated by the Government	penditure for 1936,
	obyl otanirsz			1,762,660,000				400, 389,000	2,163,049,000	.59% have been alloc:	s total recurrent ex
HEALTH	166,964,000	986,629,000	609,067,000		66,422,000	164,032,000	169,885,000			te for 1986, 16. medical supplies.	vernment from the
MINISTRY OF	Recurrent Expenditure	1 ů0 1	1 90		Capital Expenditure	- do -	1 07 1			1) The percentage from the total estimate for 1986, 16.59% have been allocated by the Government (including capital expenditure) for medical supplies.	2) 20.36% have been allocated by the Government from the total recurrent expenditure for 1936,
	н	ы Н	H H H H		н	H	III			srcent Iding	ó have
	Programme	Frogramme	Programme		Programme	Programme	Programme			1) The p( (inclu	2) 20.36/

II-2 Budget Estimates 1986 for Ministry of Health

A-17

in respect of medical supplies.

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HEAD 151 - MINISTRY OF HEALTH (ESTIMATES 1986)

22,000,000.00 26,500,000.00 11,000,000,00 7,221,000.00 220,000,00 3,307,000.00 305,131,621.00 1,919,365.00 147,900,000.00 53,900,000.00 30,812,000.00 308,256.00 44,000.00 TOTAL С.Т. D. &В. Т. Т. (c) 1,000,000.00 20,000.00 307,000.00 25,142,256.00 2,812,000.00 2,000,000.00 2,500,000.00 671,000.00 4,000.00 28,256.00 10,900,000.00 4,900,000.00 200,000,00 2,500,000.00 5,000,000.00 20,000,000,00 9,000,000.00 4,000,000.00 4,000,000.00 450,000.00 45,160,000.00 10,000.00 OTHERS (b) 3,000,000.00 1,919,365.00 234,829,365.00 30,000.00 280,000.00 117,000,000.00 40,000,000.00 17,500,000.00 20,000,000,00 5,000,000,00 6,100,000.00 24,000,000.00 DRUGS (a) Regional Administration Training & Scholarships Bio Medical Engineering 151-2-10-03-5 Medical Research Insti-Provincial & Base Hosp. including Cottage Hosp. tute 151-2-11-03-5 Assistance to Private Organisations & Local Specialized Mospitals National Blood Trans-fusion Services Central Dispensaries & Maternity Homes Quality Control Labl Diagnostic Services District Hospitals Peripheral Units & Laboratory & Other Rural Hospitals Authorities. Division 151-2-5-03-5 151-2-9-03-5 151-2-3-03-5 151-2-4-03-5 151-2-6-03-5 151-2-1-03-5 151-1-2-03-5 151-1-3-03-5 151-2-2-03-5 151-2-7-03-5 151-2-8-03-5

	* . *									X	·			
Ċ		TOTAL	305,131,621.00	16,437,000.00	* 0 *	1,200,000.00	250,000.00	3,200,000.00	397,000.00	330,000_00	3,330,000.00 300.000.00	28,320,000.00 358,865,621.00		
:		0.T.D.&B.T.T. (c)	25,142,256.00	1,437,000.00	• • •	• • •	• • •	:	37,000.00	30,000.00	300,000.00	26,946,256.00		
		OTHERS (b)	45,160,000.00	1,000,000,00	•	300,000,00	•	700,000.00	180,000.00	50,000.00	15,000.00	47,405,000.00		
		DRUCS (a)	234,829,365.00	14,000,000.00	•	900,000.00	250,000.00	2,500,000,00	180,000.00	250,000.00	2,985,000.00 300,000.00	28, 514, 365,00		
				General Preventive Services & Environ- mental Sanitation	Health Education	School Health inclu. ding School Dental	treat un Quarantine	Malaria Control	Filariasis Control	Venereal Discases Control	Rabies Control Food Quality Control	151-3-10-03(5) Family Health Total		
				151-3-1-03(5)	151-3-2-03	151303(5)	151-3-4-03(5)	151-3-5-03(5)	151-3-6-03(5)	151-3-7-03(5)	151-3-8-03(5) 151-3-9-03(5)	151-3-10-03(5)		

A-19

II-3 Budget Estimates 1986 for Medical Supplies Division

Expenditure Incurred at the M.S.D for the Period 1/1/81 to 31/12/85

		1980	, 1981	1982	1984	1985	1986 Allocation
							-
	Salaries and Wages	1,269,621 -	2,440,555 -	2,555,662	2,599,638 -	2,524,627 72	3,147,160 -
2/1	Overtime	81,561 -	144,380 -	136,190 -	- 184,090 -	178,496 65	150,000
2/3	Holiday Pay	1,321 -	4,170 -	5,107 -	4,343 -	22,153 59	19,475 -
4	Allowances to Married Officers	121,816 -	1	1.	1	· 1	1
ر ک	Special Allowance to Public Officers	546,762 -	1	1	1		1
	Additional Allowance of 10% of	205,652	1	1	1	l	1
	Consolidated Salary Wage to Public Officers	1	1	1	1	1	, ,
~	Supplementary Allowance to Public Officers	216,661 -	1	1	1	1	1
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Cost of Living Allowance to Public Officers	I	1	752,150 -	1,157,734 -	1,584,641 54	1.516.267 -
 6	Duty Allowance	30,366 -	2,680 -	2,625 -	2,825 -	5,300 -	3,300
					, , , 1 1	11 12 12 12 12 12	
2/1	Travelling Expenses (Local)	21,795 -	- 38,350 -	45,068 -	/0,/04 -	cc 770,511	1000,021
2/2	Change of Station Travelling Expenses (Local)	1		1,740 -	1	1	8,950
3/1	Stationery and Office requisites	35,950 -	- 24,026 -	33,376 -	63,063 -	51,357 51	62,036
3/2	Fuel and Lubricants	127,485	- 127,867 -	117,287 -	176,034 -	244,721 57	199,050
3/9(3)	Consumable Stores	106		- 968.5	2,796 -	489 40	535
3/9(7)	Tyres and Tubes	7 ,275 -	- 1,600 -	1,609 -	- 13,129 -	36.074 40	60,000
5/2(1)	Postage	58,017	- 91,969 -	100,595 -	142,705 -	22,820 85	22,629
	Telecommunication	I	I	1	I	118,787 70	125,000
5/2(2)	Telephone Rental	l	250 -	I,750 -	1,537 -	4,770 -	5,400
5/3(1)	Fuel for Lighting	7,255	- 3,469 -	- 562	9.517	1,421 80	15,358
5/3(2)	Water Supply	258	- 891 -	743	692 -	1,160 -	2,000
5/3(3)	Electric Current	10,640	- 1,981 -	36,153 -	124,493 -	50,726 06	100,000
5/4	Rental and Hire Charges (Property Machinery and Equipment (not vehicles))	505	- 409,554 -	23,562 -	- 67,800 -	- 23,000	53,000
5/5	Rates and Taxes	29,655	- 27,684 -	93,342 -	76,692 -	76,122 -	80,000

A--20

Expenditure Incurred at the M.S.D for the Period 1/1/18 to 31/12/85

1986 Allocation	32,000 24,153 - 300,000 - 80,0000 - 460 -	
1985	7,540 40 94,206 74 22,449 05	
1984	31,751 - 31,751 - 106,763 - 439 -	
1982	7,657 - 8,930 - 66,631 - 34,228 - -	
1981	4,151 - 13,151 - 55,191 - - 3,398,719	
1980	3,145 - 7,785 - 82,380 - 1,135,043 - 1,135,043 - 4,000,754	
	Uniform Repairs and Maintenance of Office Equipment Vehicles (Repairs and Maintenance) Transportation Sundries (Advertisements) T o t a 1	
	3/7 04/1 5/1 3/9(14	

		•	σ.	Section A	- - - -			
Serial Number	Name of Item	Unit	Balance 1/Jan./1986	1986 Esti- mate x 1/2	per Case	Number of Cases	Size of Case cm x cm x cm	Volume (m <sup>3</sup> )
0028	Ammon Bicarbonate	8 8	2,474.5	6,000	30	282	37.5 x 28.8 x 30.2	9.2
000	Acid Citric	к В	3,891.5	3,500	07	185	37.5 x 28.8 x 30.2	6.0
0074*	Calx Chlorinata	S Y	21,700	25,000	50	934	60 H x 20 radius (60 x 40 x 40)	89.7
0076	Calcium Lactate 300 mg	Tablet	55,385,000	40,000,000	50,000	1,908	52 x 30 x 53	. I57.8
0106	Creta Gallic	ъ В Х	1,000	7,000	25	320	60 x 37 x 15	10.7
0107	Creta Prepared	kg	3,550	3,000	25	262	60 x 37 x 15	8.7
0253	Magnesium Sulphate Crystals	, Kg	13,595	1	25	544	60 x 37 x 15	18.1
0376	Potassium Citrate	8 X	3,585	2,000	40	215	57 x 35 x 23	6 <b>.</b> 6
0334	Yellow Soft Paraffin	හ ද	21,295	20,000	07	1,032	30 H x 20 radius (30 x 40 x 40)	49.5
0424	Sodium Bicarbonate	kg	6,900	10,000	50	398	76.2 x 40.6 x 15.2	18.7
0602	Dextrose	kg	4,101	3,500	20	380	57 x 35 x 23	17.4
1643	Ferrous Sulph. 200 mg	Tablet	2,850,000	25,000,000	60,000	<del>4</del> 64	52 x 30 x 53	38 <b>.</b> 4
1866	Aspirin 300 mg	Tablet	15,480,000	87,500,000	50,000	2,060	52 x 30 x 53	170.3
5517	Oral Rehydration Powder Pack	Packet	469,215	250,000	2,000	359	75 x 40 x 20	21.5
								625.9 <sup>ш3</sup>
								Except *

	Volume (m <sup>3</sup> )	11	t C 47	27.9	27.4	88.7	24.7	143.4	149 <b>.</b> 9	670.4 m <sup>3</sup>	Except * 581.3 m <sup>3</sup>	en og her og skale o E	544 FR.E.D. 493 a June 3	O forman y and the second			
	e of C	37.5 x 28.8 x 30 2	x 35 x 23	×	57 x 35 x 23	45 x 30 x 26	37.5 x 28.8 x 30.2	x 28.8 x	×							· · · · · · · · · · · · · · · · · · ·	
: ,	Number of Cases	1,944	3,160	608	598	2,528	757	4,396	4,595		- <u></u>						
	per Case	20	20	20	20	25	20	20	20					· · ·	:	· <u>· · · · · · · · · · · · · · · · · · ·</u>	
Section B	1986 Esti- mate x 1/2		1	7,500	7,500	35,000	8,500	l	12,500				,				
	Balance 1/Jan./1986	26,381	63,206	4,667.5	4,461.5	28,195	6,635	87,915	79,400		· · · · · · · · · · · · · · · · · · ·	<u>.</u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, _,, _			· ·
	Unit	Litre	Litre	Litre	Litre	Litre	Litre	Litre	Litre								
	Name of Item	Solvent Ether	Benzyl Benzoate Application	Extract of Liquorice BP	Hydrogen Peroxide Solution (500 ml)	Cresol and Soap Solution	Paraffin Liquid	Piporazine Citrate Elexir	Chlorhoxidine with Cetrimide Solution	- - - -							
	Serial Number	0021	0061	0147	0230	0250*	0332	1651	5040				· · · · · · · · · · · · · · · · · · ·				

1,175.6 m<sup>3</sup> (<sup>m3</sup>) 25.4 0.6 36.6 2.4 5.7 16.3 11.2 42.4 59.2 62.I 23.5 50.4 14.9 400.7 84.5 25.1 334.6 Volume 42.8 56.5 x 50.4 x 42.8 56.5 x 50.4 x 42.8 x 50.4 x 42.8 56.5 x 50.4 x 42.8 42.8 42.8 35.5 x 33 x 27.9 Size of Case cm x cm x cm 56.5 x 50.4 x x 50.4 x 56.5 x 50.4 x 30 x 26 x 26 55 x 53 x 29 29 30 x 26 x 26 29 29 29 29 29 × 53 x 53 x × Χ × ŝ 53 ŝ ŝ 56.5 N 56.5 × × × М М ŝ ເ ເ 55 5 C ŝ ŝ 30.5 Number of Cases 348 499 300 92 116 735 278 596 486 300 47 1,000 122 3,958 4,740 206 (Vitamins, Antibiotics) 50,000 60,000 50,000 50,000 1,000 2,000 Case 1,000 60,000 50,000 12 2,000 2,000 50,000 2,000 2,000 2,000 100,000 per 2.,500 2,250,000 3,500,000 10,000,000 1,250,000 26,500,000 100,000 200,000 750,000 15,000,000 1986 Esti-mate x 1/2 300,000 5,000,000 4,000,000 3,500,000 3,000,000 250,000 I Balance 1/Jan./1986 2,664,000 1,086,000 7,400,000 107,000 3,484 400,400 1,078,000 220,600 295,900 16,200 3,916,200 5,980,025 3,120,000 15,585,000 301,000 2,200,000 2,000,000 Section C-1 L Capsule apsule Capsule Capsule ablet Tablet ablet Bottle mpule ablet Tablet Unit Vial Vial Vial Vial Vial Benzathine Penicillin 1.2 míl. Vial Vial Syrop Penicillin Forte 125 ml ڻ Enythromycin Stoarate 250 kg Inj. Penicillin 500,000 unit Chloramphenicol 250 mg Cops Inj. Strpeptomycin Sulphate Inj. Chloramphenicol Sodium Succinate 16 Sodium Aminosalicilate 0.5 Inj. Streptomycin Sulphate 1 G. Vials Inj. Penicillin 1,000,000 Phenoxymethyl Penicillin Tetracycline HCl 250 mg Inj. Fortified Procaine 8 日 Item Grieseofuliun 125 mg Inj. Ampicillin 250 Cloxacillin 250 mg Ampicillin 250 mg чч О Penicillin Vials I.N.A.H. 100 mg. Name 5 G. Vials unit Vials 125 mg Vials Serial Number 0613 0634 0639 0640 0726 1258 1259 1896 1880 5209 5219 5220 0641 1557 1930 1993 5041 5180

<b>f</b>	T	<b></b>	10000000000000000000000000000000000000		-													
	Volume (m <sup>3</sup> )	24.9	н. С	30.2	. 3.7	2.2	6.4	3.6	13.1	13.0	8.5	59.0	22.3	9.2	0.5	4.0	76.9	278.8 m <sup>3</sup>
	Size of Case cm x cm x cm	55 x 53 x 29	55 x 53 x 29	30.4 x 27.9 x 45.7	30.4 x 27.9 x 45.7	35.5 x 20.3 x 60.9	55 x 53 x 29	35.5 x 20.3 x 60.9	30.4 x 50.8 x 30.4	55 x 53 x 29	35.5 x 20.3 x 60.9	62.4 x 35.5 x 38	30.4 x 50.8 x 30.4	35.5 x 20.3 x 60.9	30.4 x 50.8 x 30.4	55 x 53 x 29	30.4 × 35.5 × 60.8	
	Number of Cases	295	5 T	779	95	50	76	e S	279	154	194	101	474	209	10	47	1,172	
₽~4	per Case	2,000	2,000	7.5	7.5	25,000	2,000	25,000	100,000	400,000	100,000	400	225,000	60,000	300,000	50,000	2,000	
Section C-1	1986 Esti- mate x 1/2	500,000	25,000	4,500	400	350,000	75,000	1,000,000	12,500,000	32,500,000	10,000,000	200,000	75,000,000	12,500,000	1,500,000	1,000,000	2,000,000	
01	Balance 1/Jan./1986	000,00	5,850	1,341.6	314.4	900,000	76,393	1,082,000	15,391,000	29,065,000	9,408,000	80,200	31,635,000	60,000	1,515,000	I,357,000	344,000	
	Ŭnit	Ampule	Vial	Bottle	Bottle	Capsule	Ampule	Capsule	Tablet	Tablet	Capsule	Vial	Tablet	Tablet	Tablet	Tablet	Ampule	
	Name of Item	Inj. Cloxacillin 250 mg	Inj. Ampicillin and Clozacillin 2 ml	Ampicillin Syrop 100 ml	Cloxacillin Syrop 60 ml	Rifampicin 300 mg	Inj. Gentamycin 40 mg	Rifampicin 150 mg	Folic Acid 5 mg	Multi Vítamin	Vitamin A & D	Inj. Vitamin B Complex	Vitamin B Complex	Vitamin C 100 mg	Vitamin B Complex Strong	Vitamin C 500 mg		
	Seríal Number	5221	5269	5271	5272	5335	5374	5375	0090	0622	0675	0679.	0680	0751	1889	1890	0120	

	(III 3)	0.9	4	4.2	e,	~	4°.		\$ •	б •	15.7	22.2	°a ~		<b></b>	142 (20.4
n Room	Volume	Ö	13.4	4	23.3	40.7	4	0	. 0			5	128			
Air-Condition	Size of Case cm x cm x cm	65 x 51 x 44	67 x 44 x 45	65 x 51 x 44	93 x 38 x 35	70 × 55 × 38	63 x 33 x 50	67 x 44 x 45	65 x 51 x 44	63 x 33 x 50	93 x 38 x 35	70 x 55 x 38	· · · ·		<u>.</u>	
Chemicals)	Number of Cases	9	101	29	188	278	41	Q	4	18	127	152				
and Chemi	per Case	006	006	006	I,500	1,000	2,000	600	006	2,000	1,500	1,000				
(X'ray Films	1986 Esti- mate x 1/2	5,688	56,250	16,250	157,500	157,500	56,250	4,825	3,900	15,650	87,500	62,500		- -		
C-1	Balance 1/Jan./1986		34,650	9,400	124,800	120,300	26,475	250	9	19,700	103,000	89,950				
Section	Unit	TIU	Film	Film	Film	Film	Film	Film	Film	Film	Film	Film		 		
	Name of Item	X'Ray Film 15 x 40 cm	X'Ray Films 35.6 x 35.6 cm	X'Ray Films 35.6 x 43.2 cm	X'Ray Films 30 x 24 cm	X'Ray Films 40 x 30 cm	X'Ray Fimls 18 x 24 cm	X'Ray Films 35.6 x 35.6 for Automatic Processing Packet	X'Ray Films 43 x 35 for Automatic Processing Packet	X <sup>*</sup> Ray Films 2 <sup>4</sup> x 18 for Automatic Processing Packet	X'Ray Films 30 x 24 for Automatic Processing Packet	X'Ray Films 40 x 30 for Automatic Processing Packet				
	Serial Number	5356	5357	5366	5475	5476	5423	5523	5524	5525	5526	5527				
						· ·		A-26						 		

	Volume (m <sup>3</sup> )	559.0	46.5	14.3	. 73.9	674,6	14.3	35.4	122,0	23.7	21.3	158.5 m <sup>3</sup>	5 <b>€</b> 0,1220,€000	<u></u>	
(suo	Size of Case cm x cm x cm		53 x 38 x 30	34 x 25 x 30	53 x 33 x 30	53 x 33 x 30	53 x 33 x 30	34 x 25 x 20	34 x 25 x 20	53 x 33 x 30	34 x 25 x 20				
Preparations)	Number of Cases	10,654	769	559	1,409	12,856	273	2,084	7,172	452	1,250				
External	per Case	40	340	12	04	40	40	12	12	30	12				
sfusion Fluids &	1986 Esti- mate x 1/2	350,000	200,000	5,000	25,000	400,000	8,750	Ι.	12,500	13,500	15,000				
(Transfusion	Balance 1/Jan./1986	76,140	61,600	1,710	31,340	114,240	2,173	25,008	73,560	20	}				
C-2 (T	Unit	Bottle	Ampule	Bottle	Bottle	Bottle	Bottle	Bottle	Bottle	Bottle	Bottle				 
Section (	Name of Item	Inj. Normal Saline 500 ml	Inj. Dextrose 50%	Inj. Protein Hydrolysate (Amigen) 500 ml	Inj. Hartman's Solution 500 ml	Inj. Dextrose 5% 500 ml	Inj. Darrows Solution 540 ml	Inj. Sodium Chloride 0.45% and Dextrose 5% BP in 500 ml	Inj. Sodium Chloride 0.18% and Dextrose 5%	Perioteneal Dialysis Solution	Inj. Mannitol 20% I.V. 250 ml				
	Serial Number	0293	0582	0961	1403	1564	1895	5044	5045	5248	5253				 

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	Volume (m <sup>3</sup> )	19.4	164.2	37.9	47.8	68.4	384.6	34.5	267.0	46.6	51.1	18.6	280.6	37.9	41.3	1,499.0 π	
	Size of Case cm x cm x cm	48 x 30 x 20	72.5 x 60 x 66	48 x 30 x 38	48 x 30 x 48	48 x 30 x 38	71 x 53 x 68.5	53 x 40 x 27.9	76 x 45 x 45	84 x 51 x 38	70 × 30 × 40	61 x 25 x 30	107 x 53 x 84	71 x 40 x 43	99 x 61 x 61		
-	Number of Cases	675	572	692	692	1250	1492	583	1735	286	608	401	589	310	112		
ings)	per Case	144	3,600	120	120	60	50	144	2,000	100	120	180	2,880	15	10,000		
-2 (Dressings)	1986 Esti- mate x 1/2	39,000	1,440,000	30,000	18,000	27,000	60,000	30,000	2,000,000	<b>I</b>	25,000	25,000	1,000,000	1	300,000		
Section C-2	Balance 1/Jan./1986	58,176	618,672	53,040	65,040	48,000	14,622	53,528	1,469,000	28,650	48,010	48,240	696,960	4,661	817,785		
	Unit	Roll	Roll	Roll	Roll	Roll	ਡ ਮ੍ਰ	Roll	Meter	Roll	Roll	Roll		у К К	Set		
	Name of Item	Bandages Crepe 7.5 cms	Bandages W.O.W 6.25 cms	Bandages P.O.P 7.5 cms	Bandages P.O.P 10.0 cms	Bandages P.O.P 15.0 cms	Cotton Wool	Bandages Elastic Adhesive 7.5 cms	Cauze Absorbent BPC 90 cms	Lint Plain	Plaster Adhesive 7.5 cms	Plaster Adhesive 5.0 cms	Sanitary Pads	Wadding Cellulose	Disposable Giving Sets		
	Seríal Number	0051	0052	0053	0054	0055	0105	0124	0166	0213	0366	0367	0410	0539	5173		

	Volume (m <sup>3</sup> )	5.2	63.9	10.6	8.0	5*3	0, 8	10.0	4 8	4.7	5.8	17.5	12.5	29.2	14.3	2.9	ст • •	5.6	134.0	27/, /, m3	1 1 1		
•	Size of Case cm x cm x cm	50 x 29 x 29	50 x 29 x 29	50 x 29 x 29	50 x 29 x 29	50 x 29 x 29	50 x 29 x 29	50 x 29 x 29	50 x 29 x 29	50 x 29 x 29	52 x 29 x 29	52 x 30 x 53	43 x 43 x 42	52 x 30 x 53	52 x 30 x 53	50 x 29 x 29	52 x 30 x 53	50 x 29 x 29	52 x 30 x 53				
	Number of Cases	124	2,232	253	190	127	18	237	114	111	133	212	161	353	173	68	112	134	1,620				
	per Cace	35,000	35,000	100,000	100,000	60,000	500,000	50,000	80,000	100,000	100,000	50,000	50,000	50,000	40,000	100,000	40,000	100,000	30,000				
Section C-3	1986 Esti- mate x1/2	1,500,000	20,000,000	5,000,000	6,000,000	3,000,000	7,000,000	7,500,000	6,000,000	4,875,000	10,000,000	6,000,000	6,000,000	8,500,000	4,500,000	5,000,000	4,000,000	9,000,000	35,000,000	:		 	
Se	Balance 1/Jan./1986	2,843,000	58,135,000	20,309,000	13,038,000	4,604,000	1,926,500	4,325,000	3,127,000	6,223,000	3,285,000	4,601,000	2,047,000	9,146,000	2,410,000	1,804,000	469,000	4,425,000	13,587,000				
	Unit	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Capsule	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet			 	
	Name of Item	Sulphadiazine 0.5 G	Sulphamexathine 0.5 G	Ephedrine Hydrochlor 15 mg	Diethylcarbonazine 50 mg	Iodochlorochydroxyquin 250 mg	Promethazine Hydrochloride	Phenytoin Sodium 100 mg	Theophylline & Ethylenediamine	Benzhexol 2 mg	Chlonpromazine Hel 50 mg	Tolbutamide 0.5 G	Phenylbutazone 100 mg	Aluminium Hydroxide 500 mg	Hydro-Chlorothiazide 50 mg	Chloropropamide 100 mg	Metronidazole 200 mg	Trifluperacine 5 mg	Paractamol				
	Serial Number	0444	0448	0590	0612	0699	0713	0728	0730	1297	5177	1872	1888	1921	1927	5051	5093	5112	5143		ministra		

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опальности 1996 - Солоникования 1997 - Солоникован	Volume (m <sup>3</sup> )	14.2	16.8	3.1	26.4	9°9	5.6	12.7	4.7	4.9	25.7	20.9	6.2	144.8 m <sup>3</sup>		· · ·	· · ·		
	Size of Case cu x cm x cm	52 x 30 x 53	50 x 29 x 29	50 x 29 x 29	52 × 30 × 53	52 x 30 x 53	38 x 38 x 42	52 x 30 x 53	38 x 38 x 42	38 x 38 x 42	38 x 38 x 42	38 x 38 x 42	38 x 38 x 42	:		· · · · · · · · · · · · · · · · · · ·			
(S)	Number of Cases	172	399	73	319	44	92	154	77	81	424	345	102						
& Capusoles)	per Case	30,000	100,000	60,000	60,000	100,000	60,000	60,000	100,000	50,000	20,000	60,000	100,000			•			
(Tablets &	1986 Esti- mate x 1/2	4,250,000	25,000,000	4,000,000	12,500,000	4,000,000	3,000,000	5,000,000	7,000,000	4,020,000	4,250,000	10,000,000	5,000,000	· .					
Section C-3	Balance 1/Jan./1986	911,500	14,858,000	377,000	6,613,000	361,000	2,539,000	4,228,000	749,000	.46,000	4,224,000	10,700,000	5,190,000						
Sec	Unit	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Tablet	Capsule	Tablet	Tablet	Tablet			-			
	Name of Item	Poțassium Chloride Slow	Chlorphoniramine Maleate 4 mg	Methyl Dopa	Ephedrine Compound	Frusemide 40 mg	Propranolol 40 mg	Furazolidone 100 mg	Diazapan 5 mg	Indomethazine 25 mg	Ethambutal 400 mg	Chloroquine 250 mg	Primaquine 7.5 mg						
	Serial Number	5185	5194	5202	5046	5210	5225	5259	5260	5324	5336	695	1711						

i		·	Š	Section C-4	(Injections)	(suo		
Seríal Number	Name of Item	. Unit	Balance 1/Jan./1986	1986 Esti- mate x1/2	per Case	Number. of Cases	Size of Case cm x cm x cm	Volume (m <sup>3</sup> )
0046	Inj. Atropine Sulph 0.6 mg	Ampule	7,300	187,500	10,000	19	71.1 x 45.7 x 55.8	3.4
0137	Inj. Ergometrine Maleate 0.5 mg	Ampule	309,500	175,000	10,000	48	71.1 x 45.7 x 55.8	8.7
0193	Inj. Adrenaline (Multi Dose) 30 ml	Vial	3,425	10,000	300	45	66 x 35.5 x 38.1	4.0
0669	Inj. Thiopentone Sodium 1.0 G	Vial	7,650	55,000	500	125	66 x 35.5 x 38.1	11.2
0670	Inj. Thiopentone Sodium 0.5 G	Vial	5,950	37,500	500	87	66 x 35.5 x 38.1	00 • •
0729	Inj. Theophy line & Ethylenediamine	Ampule	54,520	000°06	2,000	72	30.8 x 35.5 x 60.9	4.00
1639	Inj. Chlcropromazine 50 mg	Ampule	110,453	75,000	6,000	31	71.1 x 45.7 x 55.8	2*0
1745	Inj. Iron Dextran 2 ml	Ampule	375,912	150,000	4,000	98	60.9 x 45.7 x 38.4	10,5
1976.	Inj. Neostigmine Methysulphate	Ampule	54,500	125,000	6,000	11	71.1 x 45.7 x 55.8	5.0
5065	Inj. Hydrocortisone Sodium	Vial	169,850	300,000	1,800	261	58.4 x 58.4 x 35.5	31.6
5074	Halothane 250 ml	Bottle	5,851	4,000	24	410	50.8 x 35.5 x 22.8	16.9
5114	Inj. Pralidoxime	Vial	36,827	10,000	400	117	66 x 35.5 x 38.1	10.4
						-		

2 - 4°C	VC	4.8	2.3	1.2	0.9	1.2	6.7	7.4	58.4	6°.3	89.1 <sup>m</sup> <sup>3</sup>			· · · · · · · · · · · · · · · · · · ·	· · ·		
	Size of Case cm x cm x cm	47 x 36 x 38	52 x 41 x 38	47 x 36 x 38	37 x 28 x 19	37 x 28 x 19	47 x 36 x 38	37 x 28 x 19	84 x 53 x 32	37 x 28 x 19			•				
()	Number of Cases	75	28	16	47	62	104	337	410	328				-			
and Sera)	per Case	3,000	800	3,400	324	324	1,500	324	3,000	324							
Vaccines	1986 Esti- mate x1/2	200,000	11,000	27,500	12,500	9,500	67,500	75,000	1	62,500							
Section C-4	Balance 1/Jan./1986	26,200	11,650	38,137	2,741	10,704	88,260	47,084	L,229,570	43,863		 -					
080	Unit	Ampule	Ampule	Ampule	Vial	Vial	Ampule	Vial	eAmpule	Vial							
	Name of Item	Inj. Oxytocin (Synthetic)	Inj. Antí Venom Serum 10 cc	Inj. Tubocurarine 1.5 ml	Inj. Soluble Insulin 40 unit	Inj. Insulin 80 unit 10 ml	Inj. Succinyl Choline 100 mg Ampule 2 ml	Inj. Insulin Zinc Suspension 40 unit	Inj. Histamine Acid PhosphateAmpule	Inj. Insulin Lente 80 unit						•	
	Serial Number	0385	0560	0720	1072	1503	1598	1851	5020	5348					 ·.		

of Item Unit ata kg oap Solution Letre	Balance 1/Jan./1986	1986 Esti-			-	
Calx Chlorinata kg Cresol and Soap Solution Letre Formalin		mate x1/2	per Case	Number of Cases	Size of Case cm x cm x cm	Volume (m <sup>3</sup> )
	21,700	25,000	50	934	60 H x 20 hadius (60 x 40 x 40)	89.7
	e 28,195	35,000	25	2,528	45 x 30 x 26	88.7
		<u> </u>				15.0
 - -						· · · · · · · · · · · · · · · · · · ·
			-			2.0
						1.0
						5.0
					• •	
					· · · · · · · · · · · · · · · · · · ·	· .
				•	· · · · · · · · · · · · · · · · · · ·	
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 ${\rm I\!I}{=}5$  Quantity of Vaccines to be stored in the Central Store

My No:EPI/35/84 Epidemiological Unit, 385, Deans Road, Colombo 10. 29.01.86

Mr. E. Wijewantha, Director, Medical Supplies Division,

> COLD ROOM REQUIREMENTS FOR VACCINES AT S.M. STORES EXPANDED PROGRAMME ON IMMUNIZATION - EPI

Further to the discussion with you and the Japanese Team, I am forwarding the Cold Room requirements.

In addition to the nett vaccine storage requirements, space is needed for loose packing, air movement and walk around space ie. Grossing factor.

The cold rooms should be of two types and the requirements are as follows:

Type of Cold Room	Vaccine Stored	Gross capacity
+4° C to +8°C	B.C.G. DT,TT,DPT	60 m <sup>3</sup>
-20 <sup>°</sup> C	Measles , OP¥	30 m <sup>3</sup>

Sgd/- Dr. A.V.K. de Silva, Epidemiologist.

No of Boxes 6 month supply of vaccine 250,000 doses 1 miilion doses 1 million doses 1 million doses 300,000 doses 1 million doses Size of box in cms 70x61x48 63x40x56 50x40x60 53x31x45 35x40x50 70x56x55 No of doses in each box 19,000 30,000 80,000 25,000 16,000 14,000 Measles

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Estimated Quantity of 6 month supply of Vaccines

+4°C +8°C Vaccine

1. B.C.G.

D.P.T.

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D.T

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Á-36

-20 °C

5. Polio

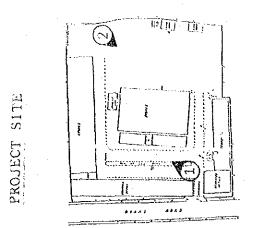
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## II-6 Particulars of Vehicles in MSD

	Particula	rs of ¥ehicles i	in M.S.D.		
·	Registration No.	Make	Type	Age	Weight
01.	26 Sri 1362	DAC	Lorry	9	5 tons
02.	26 Sri 3160	-do-	-do-	-do-	-do-
03.	26 Sri 3162	-do-	-do-	-do-	-do-
04.	26 Sri 3163	-do-	-do-	-do-	-do-
05.	28 Sri 2949	Isuzu Elf	-do-	7 Yrs.	3½ tons
06.	28 Sri 2720	-do-	-do-	-do-	-do-
07.	28 Sri 2951	do	-do-	-do-	do-
08.	40 Sri 7501	Isuzu NHR	Pick Up Van	1 Yr.	20 c.Wts.
09.	60 Sri 519	Nissan	-do-	6 Yrs.	-do-
10.	31 Sri 3783	Mitsubishi	<u> Jeeb</u>	6 Yrs.	-do-
11.	31 - Sn- 3793	-do-	-do-	-do-	-do-
12.	8 3ri. 1467	Peugeot 104	Car	9 Yrs.	-do-
13.	8 Sri 1228	Peugeot 405	-do-	-do-	-do-
		and the second second second second		and the second second	

## Particulars of Vehicles in M.S.D.

PLAN Nº. 2477 M. J. Setunga, F. S. I. Licensed Surveyor & Leveller Court Commissioner & Valuer No. 5, Sri Dhammadard Mawatha Ralmalona. T. Phone 717287 Premises bearing Assml. No. 815. Deans Road STARES STORIYED LOTT STOREYED OFFICE θ State Distilleries m > Corporation Premise Z STORES 510825 74 N 2 5 GARAGE · · · · · BATH EXCAVATION , **1**° ROA 22 6 БАГ. 7800 3<sup>.67</sup> ENTRANCI  $Q_{i}$ STOREYED OFFICE STORES Premises Nº. 385, Deans Road. Deportment of Health Scale 3 500 খ্য of premises bearing Assmil Na 355, Deans Road, Maradona Comprising of offices and stores of the Medical Supplies Division, Department of Health, Situated along Deans Road, within the Municipal Council Limits of Clolombo. -COLOMBO DISTRICT --WESTERN PROVINCE -----Bounded as follows. North by Premises bearing Assmt. No. 315, Deans Road. State Distilleries Corporation premises. East by South by Promises bearing Assmit. Nº. 385, Deans Road of the Department of Health. Deans Road. Kest by Containing in Extent 0.8600 Ha. (2 Acres, O Roods, 19.87 Perches) Heights shown herein are on Assmed Datum of 10.00 feet. Licensel- Surveyor & Leveller Surveyed and Levelled on 5th Feb. 1986.



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