

**Appendix 6 Minutes of Discussions (Oct., 12, 1999)**

**Minutes of Discussions**  
on  
**the Basic Design Study on the Project for the Supply of  
Training Equipment to Mtwara Regional Vocational Training  
and Service Centre**  
in  
**The United Republic of Tanzania**

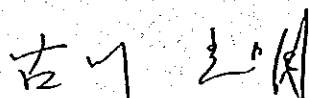
In response to a request from the Government of the United Republic of Tanzania (hereinafter referred to as 'Tanzania'), the Government of Japan decided to conduct a Basic Design Study on the Project for the Supply of Training Equipment to Mtwara Regional Vocational Training and Service Centre (hereinafter referred to as "the Project"), and entrusted the study to Japan International Cooperation Agency (hereinafter referred to as 'JICA').

JICA sent to Tanzania the Basic Design Study Team (hereinafter referred to as 'the Team'), which is headed by Mr. Mitsuaki Furukawa, Deputy Resident Representative, JICA Tanzania Office, and is scheduled to stay in the country from the 4th October to the 29th October, 1999.

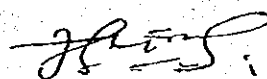
The Team held a series of discussions with the concerned officials of the Government of Tanzania and conducted a field survey at the study area.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets. The Team will proceed to further work and prepare the Basic Design Study Report.

Dar es Salaam, 12th October, 1999



Mr. Mitsuaki Furukawa  
Leader  
Basic Design Study Team  
Japan International Cooperation Agency



Dr. A. Meru  
Director General  
Vocational Education and Training Authority  
Tanzania

## ATTACHMENT

### 1. Objective of the Project

The objective of the Project is to improve the vocational function of Mtwara Regional Vocational Training and Service Centre by supplying the training equipment, and thus assisting Tanzania in imparting basic and specialized skills to young people, and at the same time, contributing to the improvement of living standards in the Southern areas in Tanzania.

### 2. Responsible and Implementing Organization

Responsible organization: Vocational Education and Training Authority (VETA)

Implementing organization: Vocational Education and Training Authority (VETA)

### 3. Site of the Project

The project site is Mtwara Regional Vocational Training and Service Centre

### 4. Items requested by the Government of Tanzania

- a. After a series of discussions, the Tanzanian side requested the items attached as Annex-1.
- b. Both sides have agreed on the general criteria for the selection of training courses as described in Annex-2.
- c. Both sides have agreed on the general criteria for the selection of equipment as described in Annex-3.
- d. The final contents of the Project will be determined according to discussions with the Tanzanian side, site survey and analysis in Japan.

### 5. Japan's Grant Aid Programme

The Tanzanian side has understood the system and characteristics of Japan's Grant Aid Programme as described in Annex-4 by the Team.

### 6. Necessary measures to be Taken by the Tanzanian side

The Tanzanian side will take the necessary measures, as described in Annex-5, for smooth implementation of the Project on condition that the Japanese Grant Aid is extended.

## 7. Further Schedule of the Study

- a. The consultants will proceed the further study in Tanzania until 29th October, 1999.
- b. JICA will prepare the Basic Design Study Report in English and dispatch a mission in order to explain its contents in (or around) January 2000.
- c. In case the contents of the report is accepted in principle by the Government of Tanzania, JICA will complete the final report and send it to the Tanzanian side by March 2000.

## **Annex-1 List of Requested Items**

Equipment for the following 11 courses are requested.

1. Carpentry and Joinery
2. Masonry and Bricklaying
3. Secretarial Training and Computer
4. Tailoring
5. Plumbing and Pipe Fitting
6. Auto Mechanics
7. Auto-Electrician
8. Welding and Fabrication
9. Electrical Installation
10. Wood Carving
11. Commercial

In case short courses are requested by the Tanzanian side, equipment for these courses will be taken into consideration.



## **Annex-2 Criteria for the Selection of Training Courses**

1. Priority will be given to courses in conformity with labour market needs in formal and informal sectors in Tanzania.
2. Priority will be given to courses in conformity with employment needs in formal and informal sectors in Tanzania.
3. Priority will be given to courses that will contribute to the improvement of the living standards in the Southern areas of Tanzania.
4. Priority will be given to courses in conformity with the fields with high employment records in the past.
5. Priority will be given to courses whose labour market needs and employment needs are expected to grow in the near future.
6. Priority will be given to courses that will contribute to income generation.
7. Priority will be given to courses that will foster and promote entrepreneurial skills.

### **Annex-3 Criteria for the Selection of Equipment**

1. Each equipment should satisfy the minimal requirements complied with the curriculum and activities in the centre at present and in the near future.
2. Each equipment should not be too sophisticated, and should be highly cost-effective.
3. Equipment that needs high level skills which are above the vocational training standards in Tanzania, many trained staff or expensive cost for proper use and maintenance should be eliminated.
4. Equipment that needs reconstruction and extension of the building on a large scale for installation should be eliminated.
5. Priority should be given to equipment whose maintenance and repairment is possible and inexpensive within Tanzania.
6. Priority should be given to equipment in conformity with those used in the local market, including the informal sector.
7. Consumables should be eliminated.

## Annex-4 Japan's Grant Aid Programme

### 1. Grant Aid Procedures

a. Japan's Grant Aid Program is executed through the following procedures.

- Application (A request made by the recipient country)
- Study (Basic Design Study conducted by JICA)
- Appraisal & Approval (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)
- Determination of Implementation (Exchange of Notes between the Governments of Japan and the recipient country)

b. Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study) using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Programme, based on the Basic Design Study Report prepared by JICA, and the results are then submitted to the Cabinet for an approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and recipient country.

Finally, for the implementation of the project, JICA will assist the recipient country in such matters as preparing tenders, contract and so on.

### 2. Basic Design Study

a. Contents of the study



The aim of the Basic Design Study (hereafter referred to as "the Study") conducted by JICA on a requested project (hereafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows :

- a) Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- d) Preparation of a basic design of the Project.
- e) Estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of the Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whether measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

#### b. Selection of Consultants

For smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA select (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study



consultant firm(s). JICA select (a) firm(s) based on proposals submitted by interested firms. The firm(s) selected carry(ies) out a Basic Design Study and write(s) a report, based upon terms of reference set by JICA.

The consultant firm(s) used for the Study is(are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid undue delay in implementation should the selection process be repeated.

### 3. Japan's Grant Aid Scheme

#### a. Grant Aid

The Grant Aid Programme provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

#### b. Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

#### c. Period

"The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed.

However, in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

d. Purchase of the Products and or Services

Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However, the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

e. Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

f. Undertakings required of the Government of the Recipient Country  
(As described in ANNEX 4)

g. Proper Use

The recipient country is required to maintain and use the facilities constructed and the equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

h. Re-export

The products purchased under the Grant Aid should not be re-exported from the recipient country.

**i. Banking Arrangements (B/A)**

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

## **Annex-5 Necessary Measures to be taken by the Tanzanian side**

The following necessary measures should be taken by the Tanzanian side on condition that the Grant Aid by the Government of Japan is extended to the Project:

1. To provide data and information necessary for the Project.
2. To complete the relocation of the existing equipment, facilities and civil works required prior to the installation of the equipment, if necessary.
3. To provide facilities for distribution of electricity, water supply, telephone, drainage, sewage and other incidental items required for the Project.
4. To ensure enough budget and staff for the proper and effective operation and maintenance of equipment provided under the Project under the responsibility of VETA.
5. To allocate enough teaching staff with adequate skills to maximize the effects of the equipment provided under the Project.
6. To bear commissions to the Japanese bank for its banking services based upon the Banking Arrangement, namely the advising commission of the "Authorization to Pay" and payment commission.
7. To ensure prompt unloading, tax exemption, customs clearance at the port of disembarkation and prompt internal transportation therein of the materials and equipment for the Project purchased under the Grant Aid.
8. To exempt Japanese juridical and physical nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Tanzania with respect to the supply of the products and services under the verified contracts.
9. To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into Tanzania and stay therein for the performance of their work in accordance with the relevant laws and regulations of Tanzania.

10. To provide necessary permissions, licenses and other authorizations for implementing the Project, if necessary.

11. To maintain and use properly and effectively the equipment provided under the Project in responsibility of VETA.

12. To bear all the expenses, other than those to be borne by the Japan's Grant Aid within the scope of the Project.

**Appendix 7 Minutes of Discussions (Jan., 18, 2000)**


**Minutes of Discussions**  
on  
**Basic Design Study on the Project for the Supply of  
Training Equipment to Mtwara Regional Vocational Training  
and Service Centre**  
in  
**The United Republic of Tanzania**  
**(Explanation on Draft Report)**

In October 1999, the Japan International Cooperation Agency (hereinafter referred to as 'JICA') dispatched a Basic Design Study Team on the Project for the Supply of Training Equipment to Mtwara Regional Vocational Training and Service Centre (hereinafter referred to as "the Project"), and through discussion, field survey, and technical examination of the results in Japan, JICA prepared a draft report of the Study.

In order to explain and consult with the concerned officials of the Government of Tanzania on the components of the draft report, JICA sent to Tanzania the Draft Report Explanation Team (hereinafter referred to as 'the Team'), headed by Mr. Mitsuaki Furukawa, Deputy Resident Representative, JICA Tanzania Office, from 11th January to 21st January, 2000.

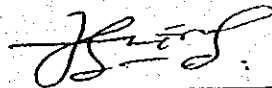
As a result of discussions, both parties confirmed the main items described on the attached sheets.

Dar es Salaam, 18th January, 2000



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Mr. Mitsuaki Furukawa  
Leader  
Draft Report Explanation Team  
Japan International Cooperation Agency  
(Japan)



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Dr. A. Meru  
Director General  
Vocational Education and Training Authority  
(Tanzania)



## ATTACHMENT

### 1. Components of the Draft Basic Design Report

The Government of Tanzania agreed and accepted in principle the components of the draft report explained by the Team.

After discussions with the Team, the items described in Annex-1 were finally confirmed by the Tanzanian side.

### 2. Japan's Grant Aid Programme

The Tanzanian side understands the Japan's Grant Aid Programme as explained by the Team and described in Annex-4 of the Minutes of Discussions signed by both parties on 12th October, 1999.

### 3. Necessary measures to be taken by the Tanzanian side

The Tanzanian side will take the necessary measures, as described in Annex-2, for smooth implementation of the Project on condition that the Japanese Grant Aid is extended.

### 4. Other Relevant Issues

4-1. The Tanzanian side strongly requested the Japanese side to include the training equipment for motor vehicle driving composed of two 4WD vehicles and a 7 ton truck, a mini-bus to transport the trainees, a 2 ton truck for the purchase of water, and a pick-up truck for the purchase of training materials which are not listed in Annex-1. The Japanese side agreed to convey the request to the Japanese Government. The request will be assessed and finally determined by the Japanese Government.

4-2. Both side agreed that the Tanzanian side will complete the following undertakings necessary for the installation of the equipment by the end of October 2000:

- Removal of existing dust ducts in Welding&Fabrication and Carpentry&Joinery workshops.
- Digging of pits in Auto Mechanics workshop after receiving the specifications from the supplier.
- Setting of partitions for cooking and food processing in the kitchen.
- Making foundation adjustments, if necessary.

4-3. Both sides agreed that the Tanzanian side will allocate appropriate budget and teaching staff to ensure proper and effective operation and maintenance of the equipment provided under the Project. As for the additional maintenance staff for the Maintenance workshop, both sides agreed that an appropriate staff with adequate skills shall be hired by December 2000.

4-4. A strong request was made from the Tanzanian side for Japanese Technical Cooperation such as the dispatch of experts, JOCVs and Counterpart training.

### 5. Schedule of the Study

JICA will complete the final report in accordance with the confirmed item and send it to the Government of Tanzania around March, 2000.

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Equipment List

ANNEX - 1

Equipment List

- |    |      |                                |
|----|------|--------------------------------|
| 1  | (CJ) | Carpentry and Joinery          |
| 2  | (MR) | Masonry                        |
| 3  | (ST) | Secretary and Computer         |
| 4  | (TR) | Tailoring                      |
| 5  | (PP) | Plumbing and Pipe Fitting      |
| 6  | (AM) | Auto Mechanics                 |
| 7  | (AE) | Auto Electrician               |
| 8  | (WF) | Welding and Fabrication        |
| 9  | (EL) | Electrical Installation        |
| 10 | (WC) | Wood Carving                   |
| 11 | (CH) | Chemical Laboratory            |
| 12 | (PL) | Physics Laboratory             |
| 13 | (MW) | Maintenance Workshop           |
| 14 | (CM) | Commercial                     |
| 15 | (GC) | General Classroom              |
| 16 | (AV) | Audio Visual Equipment         |
| 17 | (VE) | Vehicles                       |
| 18 | (SC) | Short Course (Food Processing) |

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Equipment List

1. Carpentry and Joinery

CODE	EQUIPMENT	QUANTITY
CJ- 1	Bench drill press	2
CJ- 2	Tilted saw spindle type circular saw bench	1
CJ- 3	Knife grinder	1
CJ- 4	Cordless driver drill	2
CJ- 5	Disc sander	2
CJ- 6	Jig saw	2
CJ- 7	Bench grinder	2
CJ- 8	Router machine table	1
CJ- 9 -1	Jointer(manual type)	1
9 -2	Combination Planner	1
CJ- 10	Tenon machine	1
CJ- 11	Endless abrasive belt machine	1
CJ- 13	Lathe machine (1000mm)	1
CJ- 14 -1	Portable saw	2
14 -2	Portable planner	2
14 -3	Portable sander	1
14 -4	Portable router	1
CJ- 15	Arm saw machine	1
CJ- 16	Radial saw	1
CJ- 17	Spindle molder	1
CJ- 18	Portable bench mortiser with mortising chisel bits	1
CJ- 19	Manual mitre saw	1
CJ- 20	Electric drill	4
CJ- 21	Air Compressor	1
CJ- 22	Painting equipment	2
CJ- 23	Hand Press	1
CJ- 24	Dust extractor	1 set
CJ- 25	Tool for carpentry and joinery	1 set
CJ- 26	Safety equipment	17
CJ- 27	Drafting equipment	1 set
CJ- 28	Furniture for Carpentry and Joinery	1 set



Equipment List

2. Masonry

CODE	EQUIPMENT	QUANTITY
MR- 1	Mortar mixer	1
MR- 2	Concrete mixing machine diesel engine driven	1
MR- 3	Poker vibrating machine	1
MR- 4	Theodolite	4
MR- 5	Terrazzo grinding machine	1
MR- 6 -1	Pipe cutting machine	1
6 -2	Pipe bending machine	1
MR- 7	Drilling press	1
MR- 8	Bench grinder	1
MR- 9	Arm saw machine	1
MR- 10	High speed cutting machine	2
MR- 11	Cart (heavy duty)	1 set
MR- 12	Tool for masonry and bricklaying	17
MR- 13	Safety equipment	1 set
MR- 14	Drafting equipment	1 set
MR- 15	Furniture for Masonry	

3. Secretary and Computer

CODE	EQUIPMENT	QUANTITY
ST- 1	Electronic typewriter	8
ST- 2	Computer set	17
ST- 3	Photocopy machine	1
ST- 4	Air conditioner	2
ST- 5	UPS	17
ST- 7	Typewriter	8
ST- 8	Voltage stabilizer for computer	17
ST- 9	Desk calculator	4
ST- 10	Radio cassettes	1
ST- 11	Stop watches	4
ST- 13	Printing equipment	1
ST- 15	LCD projector	1
ST- 16	Furniture for Secretary and Computer	1 set

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Equipment List

4. Tailoring

CODE	EQUIPMENT	QUANTITY
TR- 19	Vacuum board /electric steam iron	2
TR- 25	Electric power straight stitch sewing machine	2
TR- 26	Buttonholer machine	2
TR- 27	Zigzag sewing machine	2
TR- 28	Multi function sewing machine	17
TR- 29	Sewing tool set	1 set
TR- 30	Furniture for Tailoring	1 set

5. Plumbing and Pipe Fitting

CODE	EQUIPMENT	QUANTITY
PP- 1	Drill press	2
PP- 3	Bench grinder	2
PP- 4	Gas welder	1
PP- 5 -1	Shearing machine, hand bench type	1
5 -2	Bending machine, manual type	1
PP- 6	Electric drill	2
PP- 7	Disc grinder	1
PP- 8	Power hacksaw	1
PP- 9	Power shredding machine	1
PP- 10	Hydraulic pipe bending machine	1
PP- 12	Submersible Sump Pump	1
PP- 13	Pipe threading machine	1
PP- 14	Tool for plumbing and pipe fitting	1 set
PP- 15	Safety equipment	17
PP- 16	Drafting equipment	1 set
PP- 17	Furniture for Plumbing and Pipe Fitting	1 set

Equipment List

6. Auto Mechanics

CODE	EQUIPMENT	QUANTITY
AM- 1	Power steering assembly	1
AM- 2	Steering gear assembly with braking system	1
AM- 3	Dry single disc clutch (OHP transparent sheet)	1
AM- 4	Synchromesh transmission (OHP transparent sheet)	1
AM- 5	Clutch and Transmission	1
AM- 6	Ackerman steering system(OHP transparent sheet)	1
AM- 7	Ignition system(D-type animated board)	1
AM- 8	Alternator (Cut-away model)	1
AM- 9	Advanced mechanism (D-type animated board)	1
AM- 10	Chassis gasoline engine (cut-away)	1
AM- 11	Diesel engine model	1
AM- 12	Petrol engine model	1
AM- 13	Diesel rotating injection pump(cut-away)	1
AM- 14	Diesel injection pump(cut-away)	1
AM- 15	Live diesel engines on rotating stand	1
AM- 16	KE-Jetronic trainer	1
AM- 17	Sectioned turbocharger	1
AM- 18	Sectioned motorcycle 2 stroke, 1 cylinder engine	1
AM- 19	Automotive air conditioning demonstration unit	1
AM- 20	Diesel injection pump test bench	2
AM- 21	Fuel consumption meter	1
AM- 22	Wheel balance	1
AM- 23	Tire changer	2
AM- 24	Tire gauge	2
AM- 25	Chain block	2
AM- 26	Portable lubricator	1
AM- 27	Air compressor	1
AM- 28 -1	Real engine of full set type. practical training(Gasoline)	1
-2	Real engine of full set type. practical training(Diesel)	1
AM- 29	Automotive education / training kit	2
AM- 30	Camber, caster, kingpin gauge	1
AM- 32	Brake shoe grinder	1
AM- 33	Radiator cap tester	1
AM- 34	Crankshaft grinding machine	1
AM- 35	Cylinder head surfacing machine	1
AM- 36	Needle valve grinding machine	2
AM- 39	Cylinder head stand	2
AM- 40	Diesel compression tester	2
AM- 41	Diesel fuel pump timing kit	2
AM- 42	Cylinder leakage tester	2
AM- 43	Cooling system tester	2
AM- 44	Fuel injector pressure tester kit	2
AM- 45	Engine support beam	1
AM- 46	Pressure brake bleeder	1
AM- 47	Arc welder	1
AM- 48	Gas welder Set	1
AM- 50	2-post vehicle lift	1

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Equipment List

6. Auto Mechanics

CODE	EQUIPMENT	QUANTITY
AM- 51	Engine stand	4
AM- 52	Hydraulic press	1
AM- 53	Platform trunk	4
AM- 54	Steel wall rack	4
AM- 55	Car creeper	4
AM- 56	Angle grinder	2
AM- 57	Dial test indicator (plunger type)	2
AM- 58	Drill press	2
AM- 59	Combustion leakage tester	4
AM- 62	Brake disk lathe	1
AM- 63	Shop press	1
AM- 64	Diesel smoke meter	1
AM- 65	Automatic air inflater	1
AM- 66	Vertical boring machine	1
AM- 68	Cylinder honing machine	1
AM- 69	Valve seat cutter	1
AM- 71	Vulcanizing machine	1
AM- 72	Gasoline engine analyzer	1
AM- 73	Vacuum gauge for gasoline engine	1
AM- 74	Vacuum fuel pump gauge	2
AM- 75	Valve spring tester	1
AM- 76	Portable hydraulic jack	4
AM- 77	Brake lining rivetter	1
AM- 78	Electric drill	2
AM- 79	Piston ring groove cleaner	1
AM- 80	Battery hydrometer	2
AM- 81	Diesel timing and tacho tester	2
AM- 82	Tripod stand(Stand for display board)	10
AM- 83	Rack and pinion type of steering box	1
AM- 84	Torque gauge	1
AM- 85	Side slip tester	1
AM- 86	Brake and speed meter tester	1
AM- 88	EGI (Electric Gasoline Injection) system animated board	1
AM- 90	Nozzle tester	2
AM- 91	Bench electric grinder	1
AM- 92	Compression gauge	1
AM- 96	Mini truck(used car)	1
AM- 97	4WD station wagon(used car)	1
AM- 98	Sedan (used car)	1
AM- 99	Painting equipment	4
AM- 100	Tool for automobile	1 set
AM- 101	Safety equipment	17
AM- 102	HC/CO tester	1
AM- 103	Drafting equipment	1 set
AM- 104	Furniture for Auto Mechanics	1 set

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Equipment List

7. Auto Electrician

CODE	EQUIPMENT	QUANTITY
AE- 1	Electric wiring training board	1
AE- 2	Ignition system simulator	1
AE- 3	Automotive electrical chassis	1
AE- 4	Tacho / dwell meter	2
AE- 5	Engine tuner	2
AE- 6	Insulation tester	2
AE- 8	Spark plug cleaner tester	1
AE- 9	Ignition system	1
AE- 10	Battery starter / charging circuit checker	1
AE- 11	Headlight tester	1
AE- 13	Battery drop tester	2
AE- 14	Starter charger	2
AE- 15	Ignition tester	2
AE- 16	Coil and condenser ohm tester	2
AE- 17	Disc grinder	1
AE- 18	Silicon normal charger	1
AE- 19	Silicon quick charger with normal charge	1
AE- 20	Growler armature tester	1
AE- 21	Vacuum gauge for gasoline engine	1
AE- 22	Compression gauge	1
AE- 23	Hydraulic garage jack	1
AE- 24	Bench drill press	1
AE- 25	Distributor test bench	1
AE- 26	Starter generator test bench	1
AE- 27	Alternator modern type and old type each	4
AE- 29	Bench electric grinder	1
AE- 30	Diesel timing and tacho tester	2
AE- 31	Air compressor	1
AE- 32	Electric drill	2
AE- 33	D.C.volt ampere meter	4
AE- 34	Ohmmeter	4
AE- 35	Battery hydrometer	2
AE- 36	Battery tester	2
AE- 37	Circuit tester	4
AE- 38	Hard plastic container for acid and distilled water	2
AE- 39	Tool for auto-electrician	1 se
AE- 40	Safety equipment	17
AE- 41	Drafting equipment	1 set
AE- 42	Furniture for Auto Electrician	1 set

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Equipment List

8. Welding and Fabrication

CODE	EQUIPMENT	QUANTITY
WF- 1	Sheet bending machine	1
WF- 2	Shear cutting machine	1
WF- 3	Mig welder	2
WF- 4	Tig welder	2
WF- 5	Bench grinder	4
WF- 6	AC Arc welder	8
WF- 7	Power hacksaw	1
WF- 8	Electric drill	4
WF- 9	Gas welder set	8
WF- 10	Drilling press	2
WF- 11	DC Arc welder	2
WF- 12	Oxy cutting machine	4
WF- 13	Gressel bending machine	1
WF- 14	Spot welding machine	1
WF- 15	Bending roller machine	1
WF- 17	Angle grinder	2
WF- 19	Exhaust fan and duct	1 set
WF- 20	Engine welder	2
WF- 21	Vertical drilling machine	1
WF- 22	High speed cutting machine	1
WF- 23	Compressor	1
WF- 24	Painting equipment	2
WF- 25	Tool for welding and fabrication	1 set
WF- 26	Safety equipment	17
WF- 27	Drafting equipment	1 set
WF- 28	Furniture for Welding and Fabrication	1 set

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Equipment List

9. Electrical Installation

CODE	EQUIPMENT	QUANTITY
EL- 1	Sectioned electric motors	1
EL- 2	Security alarm trainer	1
EL- 3	Variable transformer and power supplies	1
EL- 4	Basic electricity trainer	1
EL- 5	Oscilloscope	4
EL- 6	Multivoltage analogue insulation & continuity tester	8
EL- 7	Earth leakage clamp meter	8
EL- 8	Kit for the construction of a 3-phase	8
EL- 9	Digital tester	16
EL- 10	Kit for the construction of a 1-phase	8
EL- 11	Kit for the construction of 5 types	8
EL- 12	Manual coil winding machine	8
EL- 13	Stator and rotor tester	4
EL- 14	Arc welder for copper windings	8
EL- 15	Bench drill press	2
EL- 16	Bench grinder	2
EL- 17	Soldering iron	16
EL- 18	Electric drill	4
EL- 19	Assorted voltmeters	4
EL- 20	Assorted ammeter	4
EL- 21	Multimeter (analog)	4
EL- 22	Wattmeter	8
EL- 23	Tool for electrical installation	1 set
EL- 24	Safety equipment	17
EL- 25	Drafting equipment	1 set
EL- 26	Furniture for Electrical Installation	1 set

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Equipment List

10. Wood Carving

CODE	EQUIPMENT	QUANTITY
WC- 1	Belt/disc sander	4
WC- 2	Table saw	1
WC- 3	Bench mortiser	2
WC- 4	Scroll saw	4
WC- 5	Dust extractor	2
WC- 6	Portable chip collector	2
WC- 8	Wood sawing machine (14')	1
WC- 9	Wood finishing machine (37')	1
WC- 10	Electric drill	2
WC- 11	Precision meter saw	4
WC- 13	Compressor	1
WC- 14	Painting equipment	1
WC- 15	Grinder	1
WC- 16	Tool for wood carving	1 set
WC- 17	Safety gear	17
WC- 18	Drafting equipment	1 set
WC- 19	Furniture for Wood Carving	1 set

11. Chemistry Laboratory

CODE	EQUIPMENT	QUANTITY
CH- 1 -1	Analytical balance(300g/0.01g)	8
-2	Analytical balance(3000g/0.01g)	4
CH- 2	Hot plates (round)	8
CH- 3	Hot air oven	1
CH- 4	pH meter	4
CH- 6	Water bath temperature control system	2
CH- 7	Magnetic stirrer	8
CH- 8	Mixers for test tube	8
CH- 9	Cartridge water purifier	1
CH- 10	Alcohol lamp	8
CH- 11	Steel stand	8
CH- 12	Test tube stand	8
CH- 13	Molecule model set	1 set
CH- 14	Chemical reagent	1 set
CH- 15	Glassware	1 set
CH- 16	Furniture for Chemical Laboratory	1 set

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Equipment List

12. Physics Laboratory

CODE	EQUIPMENT	QUANTITY
PL- 1	Spherometer	2
PL- 2	Physical balance	4
PL- 3	Electronic balance	4
PL- 4	X-Y travelling microscope	1
PL- 5	Young's modulus apparatus	1
PL- 6	Viscosity apparatus	1
PL- 7	Model for demonstration of conservation of angular	1
PL- 8	Centripetal force apparatus	4
PL- 9	Pendulum bob set	4
PL- 10	Fortin's barometer, Wall Model	1
PL- 11	Aneroid barometer (portable)	4
PL- 12	Tuning fork	4
PL- 13	Sound level meter	2
PL- 14	Resonance air column apparatus	2
PL- 15	Steam boiler	1
PL- 16	Bimetallic thermometer	2
PL- 17	Thermal conductivity apparatus(Ingenhousz's)	2
PL- 18	Conductivity meter	2
PL- 19	Joule's calorimeter	2
PL- 20	Wet and dry bulb hygrometer	2
PL- 21	Spherical lenses	4
PL- 22	Prisms	4
PL- 23	Optical bench	1
PL- 24	Lux meter	2
PL- 26	DC ammeter	4
PL- 27	DC mills ammeter	4
PL- 28	DC micro ammeter	4
PL- 29	DC voltmeter	4
PL- 30	Digital mills voltmeter	4
PL- 31	Galvanometer	4
PL- 32	Demonstration type DC voltmeter	1
PL- 33	Demonstration type DC voltmeter	1
PL- 34	Demonstration DC galvanometer	1
PL- 35	AC/DC ammeter	4
PL- 37	Resistance box	4
PL- 39	Digital millimeter	2
PL- 40	Induction coil, spark length 50 mm	1
PL- 41	Electrostatic kit	4
PL- 42	Regulated power supply	4
PL- 44	Rheostat A	4
PL- 45	Rheostat B	4
PL- 46	Meter bridge	4
PL- 47	Potentiometer	4
PL- 48	Leclanchi cell	1
PL- 49	Daniel cell	1
PL- 50	Variac	4
PL- 51	Bourdon's gauge	1
PL- 52	Tool for physics laboratory	1 set
PL- 54	Furniture for Physics Laboratory	1 set

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*Equipment List*

**13. Maintenance Workshop**

CODE	EQUIPMENT	QUANTITY
MW- 1	Milling machine	1
MW- 2	Turning centers	1
MW- 3	Air Compressor	1
MW- 4	Drilling machine	1
MW- 5	Bench grinder	1
MW- 6	Square	2
MW- 7	AC Arc welder	1
MW- 8	Gas welder	1
MW- 9	Chain block	1
MW- 10	Electric drill	1
MW- 11	Disc sander	1
MW- 12	Painting equipment	1
MW- 13	Borrow	1
MW- 14	Bicycles	4
MW- 15	Tool for bicycle	4
MW- 16	Tool for maintenance	1 set
MW- 17	Safety equipment	4
MW- 18	Drafting equipment	1 set
MW- 19	Furniture for Maintenance Workshop	1 set

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Equipment List

14. Commercial

No equipment

CM-	1	Furniture for Commercial	1 set
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15. General Classrooms

No equipment

GC-	1	Furniture for General Classroom	1 set
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16. Audio Visual Equipment

CODE	EQUIPMENT	QUANTITY
AV- 1	Portable Overhead Projector	4
AV- 2	Slide Projector	2
AV- 3	Light Pointer	4
AV- 4	Projection screen	4
AV- 5	Stationary video cassette recorder	2
AV- 6	Stationary color TV	2

17. Vehicles

Request is conveyed to Japan.

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Equipment List

18. Short Course (Food Processing)

CODE	EQUIPMENT	QUANTITY
SC- 1	Refrigerator	1
SC- 2	Freezer	1
SC- 3	Process Pressure Retort	2
SC- 4	Gas Oven and Table	2
SC- 5	Meat Mincer	1
SC- 6	Stuffer	1
SC- 7	Meat Tenderizer	2
SC- 8	Blender	1
SC- 9	Mixer	1
SC- 10	Slicer	1
SC- 11	Smoke Drying Machine	1
SC- 12	Cabinet Solar Dryer Movable Type	1
SC- 13	Balance 50kg	1
SC- 14	Balance 1kg	2
SC- 15	Kitchen Timer	4
SC- 16. -1	Thermometer (1) -20~105 C degree	4
-2	Thermometer (2) . 0~360 C degree	4
SC- 17	Meat Thermometer 0~360 C degree	2
SC- 18	Service Wagon with caster	4
SC- 19	Salinometer	1
SC- 20	Kitchen Utensils	1
SC- 21	Furniture for Short Courses	1 set

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## **Annex-2 Necessary Measures to be Taken by the Tanzanian side**

The following necessary measures should be taken by the Tanzanian side on condition that the Grant Aid by the Government of Japan is extended to the Project:

1. To provide data and information necessary for the Project.
2. To complete the relocation of the existing equipment, facilities and civil works required prior to the installation of the equipment, if necessary.
3. To provide facilities for distribution of electricity, water supply, telephone, drainage, sewage and other incidental items required for the Project.
4. To ensure enough budget and staff for the proper and effective operation and maintenance of equipment provided under the Project under the responsibility of VETA.
5. To allocate enough teaching staff with adequate skills to maximize the effects of the equipment provided under the Project.
6. To bear commissions to the Japanese bank for its banking services based upon the Banking Arrangement, namely the advising commission of the "Authorization to Pay" and payment commission.
7. To ensure prompt unloading, tax exemption, customs clearance at the port of disembarkation and prompt internal transportation therein of the materials and equipment for the Project purchased under the Grant Aid.
8. To exempt Japanese juridical and physical nationals engaged in the Project from customs duties, internal taxes including VAT and other fiscal levies which may be imposed in Tanzania with respect to the supply of the products and services under the verified contracts.
9. To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into Tanzania and stay therein for the performance of their work in accordance with the relevant laws and regulations of Tanzania.
10. To provide necessary permissions, licenses and other authorizations for implementing the Project, if necessary.
11. To maintain and use properly and effectively the equipment provided under the Project in responsibility of VETA.
12. To bear all the expenses, other than those to be borne by the Japan's Grant Aid within the scope of the Project.

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