III-3 Execution of real operation

(1) Delay of establishment of paper mill

At the time this project was requested and planned, it was originally anticipated that the paper mill would be starting its operation during the term of cooperation. However, for various reasons it was postponed till 1985, which eventually created some problems in the implementation of the project and made it difficult to ensure optimum effect of the project. In the initial plan, in the third and the fourth stage of each phase training course, such OJT was to be carried out that the trainees were put into the forest exploitation work for supplying raw materials to the paper mill introducing mechanical logging to some extent where work efficiency was to be naturally stived for. But, because of the delay of the paper mill, without the expected vast demand for the Merkusii pine logs, OJT had to be carried out on a very small scale. Because of this, seemingly good opportunities were lost to notice and evaluate the various problems which might appear when large scale mechanical logging is actually carried out and chances to search for the countermeasures to those problems within the cooperation period were also lost.
Of course, these problems are to some extent possibly imagined. However, unless confronted in reality the comprehension of the problems is inevitably limited and the effect of the countermeasures is not clear.

Another problem is that those who graduated from the MLP training course were not fully utilized. While they are totally apart from logging or related activities, it cannot be denied their acquisition of techniques dwindles, which is a negative factor from the view point of the most effective transfer of technology.

(2) Planning and its execution

So-called plan-do-see is an indispensable factor to any kind of commercial activity. It was noticed during the OJT

that plan and do are detached from each other especially in the logging work. In the large scale forest exploitation which will be realized in the near future, it will be vitally important that a series of plans is made like long-term (several years), annual, short-term (a few months), weekly and so on which are closely interrelated with each other, and to analize the diference and have it be reflected in the next planning.

(3) Secondary effects of large scale mechanical logging

The primary objective of the introduction of mechanical logging is to collect pine logs as raw material for pulp in great quantity, swiftly and safely. Some secondary effects are expected as below:

a) Improvement of the welfare of local inhabitants

i. Enlarged employment opportunities by enlarged scale of forest exploitation work.

ii. Improvement of living conditions by the improvement and construction of infrastructure such as forest roads.

iii. Englarged flow of market goods by the augmentation of employees

b) Promotion of related industries

i. Promotion of transport business by huge amount of log transport

ii. Promotion of repairing and machinery servicing business by the large scale employment of heavy machinery and vehicles .

III-4 Experts

(1) Expected qualifications of the experts

i. to possess profound knowledge and mastery of techniques in specialized fields

--- it is a principal requirement to be possessed of profound knowledge, but also of importance is to have profound experience in actual work. High technical accumulation is the source of leadership.

ii. to be flexible in thinking in addition to being theoretical

--- Mechanical logging technology is an integration of various basic techniques. It is naturally required to be well versed in the theory. But in applying it to the various logging sites, great flexibility is needed. If insisting excessively on the theory, it can become somehow detached from the reality, which could cause confusion to the counterparts and the trainees.

iii. to be critical-minded, purpose concious

--- It is of importance in groping for the better way of transfer of technology, to always impose self-interrogation such as "What's the ultimate purpose of doing this?". "Are there any problems in doing this?"

iv. to have aspiration to improve oneself

--- It is necessary to be ardent and aspire to improve oneself not only in technical matters but also in language and all other aspects.

v. to have reasonable judgment of things

--- It is necessary to make things clear, sometimes accentuating important points and also sometimes omitting less important points for the effective transfer of technology.

vi. to be positive in improving ability of local language

--- Needless to say, language is the most vital means of transfer of technology. When the object of

transfer is technicians in field work, only the local language is understandable. Although, it is difficult to become fluent in a local language in two years time. For the correct communication essential for the effective transfer of technology experts are required to make strenuous efforts to improve their local language.

vii. to refrain from forcing Japanese way of thinking and behavior on the local people.

---Every country has its own time-worn customs, behavior, way of thinking. If these are disregarded and the Japanese way forced, transfer of technology will become superficial and resentment may sometimes rise. So, even if it appears to be ineffective, it is often the case that it is steadier to lead them putting oneself in their place. When it is important to do something in the Japanese way, much time must be taken until they volunteerly agree to it.

viii. to be mentally and physically healthy

---It is important to be healthy for the achievement of one's task in a country where the living condition is emmensely different from Japan such as morals, customs, language, climate, environment, food, etc.

(2) Evaluation of the experts

Eventhough the qualifications of the experts differ from person to person, they were at large possessed of those requirements.

## III-5 Counterparts

### (1) Requirements of counterparts

Counterparts are the direct object of transfer of technology and expected to become the driving force to develop the transferred technology. In that sense, similar qualifications are required of them. In a training project leadership capability is also required as well as deep understanding of technical matters. Only when these two requirements are fulfilled is smooth transfer of technology achieved.

In order to establish and develop transferred technology, such capabilities are needed as planning and inventiveness. The aspiration for the development and establishment is a prerequisite.

i. Comprehension ability

Unless well-versed in the theoritical grounds as well as retaining the understanding of individual techniques, appropriate application and integration of those techniques in the most suitable form to the various logging sites is difficult to achieve. The willingness to pursue thoroughly until reaching complete understanding not being satisfied with the half way understanding, is vitally important.

ii. Leadership ability

In a training project, the counterparts are required to exceed the trainees in all the technical matters concerned. Leadership ability spontaneously generates to some extent if there is enough experience and technical predominance. Yet it is sometimes a problem of apptitude of each person whether he can exert to the fullest his leadership.

iii. Planning ability

Planning ability plays an important part in the true establishment and development in the most desirable direction when large scale mechanical logging is realized. Especially, in the real large scale operation, plan-do-see should fuction effectively. The personnel employed in

making the plan should be accustomed to walking in the forest for reconnaisance because to have a picture in mind of the site in question is indispensable.

(2) Evaluation of the counterparts

All the counterparts contributed greatly to the implementation the project, gaining fruitful results from the transfer of technology. They are highly expected to take essential roles in the maintenance and development of the transferred technology.

Some points still needed to be strengthened are as follows;

i. Plan making and reflection in the subsequent plan of the analysis of execution
ii. An attitude of hunger for the acquisition of techniques and aspiration for the development of techniques
iii. Walk around the work site to have deeper comprehension

III-6 Trainees

(1) The first-phase trainees

Since they were the first trainees received by the MLP training course, and the training was deemed to be dealing with machinery unfamiliar in Java, most of the selected trainees were graduates from technical high schools.

They could receive considerably intense guidance partly because the number was 12 and thanks to their high spirits to acquire techniques, in spite of the slight inefficiency of the executive organization in the early stage of the project. As a result of the training which put the utmost importance on the complete mastery of basic techniques some trainees became excellent in specific techniques such as wire rope processing, driving skills, etc.

(2) The second-phase trainees

Twenty-four trainees were enrolled in the MLP second-phase training course when the project activities came into full swing. The mechanical logging being relatively widely known to the personnel of Perhutani, a variety of persons was gathered not only selected from the graduates from technical high schools but widely from general high schools and even college graduates. They were both physically strong and intellectually capable. As to the acquisition of basic techniques, the training content was the same as the first phase, but some additions were made such as application of techniques, skyline variations, and work efficiency and economical aspects, and considerably good results were obtained.

(3) The third phase trainees

They were selected for the qualifications such as aspiration, health, cleverness. They were less strong physically compared to the second trainees and also mentally probably because they had misgivings about their treatment after graduation from the training course. Nevertheless, spiritually bolstered by the clearer picture of the realization of the large scale mechanical logging work, they could participate in the OJT

with high spirits and experience multifarious training as the project entered the maturing period. Especially, in the latter half of the training course, work efficiency and production control were positively pursued in OJT in view of the realization of large scale forest exploitation. For about 50 days of the period, the training was carried out only by the counterparts and the trainees, the result of which were very fruitful.

III-7 Equipment supply

Equipment was duly supplied that no impediment to the implementation of the project occurred. It is strongly hoped that the supplied equipment will be fully utilized for the establishment and the further development of the transferred technology. Japanese machinery of recent days is, for the sake of high function and compactness and lightness, made of various assemblies, which cannot be taken apart and broken down for the repairing work. But, considering it is mostly the case in most countries to disassemble to the smallest part for the repair work, the machine supplied preferably of primitive structure even in sacrificing the high performance, light weight and compactness.

III-8 Training in Japan

By the termination of the cooperation period, 26 Perhutani employees had been received for the training in Japan. Transfer of technology was promoted by those who received training in Japan who brushed up their techniques and deepened their understanding of advanced and sophisticated mechanical logging with their own eyes. The smooth implementation of the project was considered to be promoted by those senior officials of Perhutani who observed Japanese forestry in general and deepened their understanding.

However, reconsideration should be given to the fact that only 11 out of 17 who took the junior course training in Japan, were appointed as counterparts or positions closely related to the project, leaving the other 6 unutilized. It was really a sorrowful matter that one senior course participant passed away during the training in Japan.

From among the graduates of MLP training course some persons were selected and sent to the training in Japan since the middle of the cooperation period. However, in 1982, it became very difficult for the graduates of third-phase training to be received in the training in Japan on account of the number allotted to this project and of the long time consumed for the selection of the applicants, which is truly a regretful matter in view of the effectiveness of transfer of technology.

## IV. RECOMMENDATION

### 1. Establishment and early start of operation of paper mill

The projected paper mill in Central Java, which was the backbone of the request of this technical cooperation project, should be established as soon as possible. It can not be denied that the delay of the paper mill gave rise to some problems to the effective implementation of the project, especially in the OJT and the maintenance and development of the transferred technology. Under the very limited demand for the Merkusii pine logs today, the merits of introducing mechanical logging are very few and it is feared that the technology which was transferred and accumulated will be wasted.

### 2. Establishment of an executive organization and its consolidation

In order to ensure maintenance and development of the transferred technology after the termination of the project, a proper executive organization must be established. This organization would be preferably composed of two divisions. One would be to execute the logging operation for the maintenance of the technology for the time being, which would be presumably enlarged in proportion to the increase of production, and the other would be to train technicians who otherwise are feared to become in short supply in the large scale log production in near future.

Although the organization is to be consolidated according to the production scale, the consolidation should be completed at least one year before the start of the paper mill. Training of technicians should be continued in the long run.

3. Proper scale log production

It is necessary to execute the log production, dispersing the work sites to several district forest, and controlling the work scale to the moderate size for each district forest. If huge production is concentrated in one area, various difficulties will be caused in securing of high quality labor, construction of forest road and other facilities, log transport, effective implementation of the work, etc.

Since it is hardly possible to increase the log production in a very short time, some measures should be taken such as gradually increasing the production or adjusting the operation degree of the paper mill.

4. Establishment of checking system

No kind of enterprise can be carried out smoothly unless the system of plan-do-see fully functions. For the establishment of such a system which would always observe the execution of work, analyze the results, and reflect it to the next plan, special division should be set up in the organization mentioned in the preceding chapter 2. This division would also take charge of analyzing thoroughly the cause of various delays, accidents, machinery troubles, etc. and adopting measures to prevent similar troubles.

5. Improvement and extension of the forest road network

Improvement of the forest road network is imperative when carrying out mechanical logging. Especially, in the case of the huge quantity of log production, mechanical logging cannot exert its advantages unless the forest road network is improved. Forest road density of at least 20 m per ha including public roads is regarded necessary in the log production area. The improvement and extension of the forest road network should precede in ample time the start of the forest exploitation.

6. Work safety

Securing safety is also an important matter in log production. Although this matter was emphasized in the training, a systematic method of securing safety in large scale log production was not tackled as a realistic problem. Work safety standards should be established and should be observed in order to secure thorough safety.

7. Strengthen machinery maintenance

It is a requisite for efficient mechanical work that all the machinery be fully functioning and in best condition. Strengthening of machinery maintenance system will become extremely important when a great number of machines are employed. So, the augmentation of the number of maintenance personnel and upgrading of their quality should be postively promoted. It is also an important matter to always have a stock of necessary spare parts.

8. Consolidation of equipment management

Theft, loss and damage of machinery/equipment is a big hidering factor to the smooth implementation of work. Measures should be taken for the stringent management of equipment.

# LETTER OF AGREEMENT

Japan International Cooperation Agency ( JICA ) represented by

Mr. MORIYA MIYAMOTO

the Resident Representative of JICA in Indonesia

and

the Government of Republic of Indonesia represented by

Mr. HARTONO WIRJODARMODJO

the President Director of Perum Perhutani

agree to close the Mountain Logging Practice Project registered as ATA — 184. In accordance with the Record of Discussions on the Technical Cooperation for ATA — 184, signed on December 1977, all equipment of the project belong to the Government of the Republic of Indonesia.

Jakarta, June 14, 1982

President Director of
Perum Perhutani,

( Hartono Wirjodarmodjo )

Resident Representative of
JICA in Indonesia,

( Moriya Miyamoto )

Director General of Forestry,

( Dr. Soedjarwo )

# PRESENTATION OF EQUIPMENT AND FACILITIES FOR MOUNTAIN LOGGING PRACTICE PROJECT IN JAVA (ATA - 184)

JICA

JAPAN INTERNATIONAL COOPERATION AGENCY

Mr. Hartono Wirjodarmodjo
President Director,
PERUM PERHUTANI

*Dear Sir,*

*On behalf of Japan International Cooperation Agency (JICA) I have the honor to present the equipment and the model infrastructural facilities for the Mountain Logging Practice Project in Java (ATA-184) in accordance with record of discussions signed on December, 1977.*

*I sincerely hope that the equipment and facilities will further contribute to the development of the mechanical logging technology in the Republic of Indonesia.*

*Jakarta, June 15, 1982.*

Moriya Miyamoto
Resident Representative
Japan International Cooperation Agency

I. THE LIST OF THE EQUIPMENT DONATED TO THE MOUNTAIN LOGGING PRACTICE PROJECT IN JAVA (ATA–184) FROM 1978–1981.

1) 1978 (fiscal year) Total ¥ 83,432,000.–

1. Yarder (4)
2. Wire rope (25,200 m)
3. Tractor
4. Micro bus (2)
5. Truck (2)
6. Four wheel drive car (2)
7. Copy machine
8. Accessories & spare parts
9. Tools
10. Office equipment

2) 1979 (fiscal year) Total ¥ 101,686,000.

1. Yarder (6)
2. Wire rope (41,000 m)
3. Tractor (2)
4. Micro bus (2)
5. Truck (2)
6. Four wheel drive car
7. Motor cycle (2)
8. Chain saw (6)
9. Copy machine (2)
10. Generator (4)
11. Accessories & spare parts
12. Tools
13. Office equipment

3) 1980 (fiscal year) Total ¥ 115,417,000.–

1. Yarder (7)
2. Wire rope (54,000 m)
3. Tractor
4. Micro bus
5. Four wheel drive car (2)
6. Shovel dozer
7. Motor cycle (2)
8. Copy machine (2)
9. Accessories & spare parts
10. Tools
11. Office equipment

4) 1981 (fiscal year) Total ¥ 82,160,000.

1. Wire rope (98,000 m)
2. Micro bus (2)
3. Log loader
4. Chain saw (5)
5. Copy machine
6. Accessories & spare parts
7. Tools
8. Office equipment

Grand Total ¥ 381,855,000.–

II. THE LIST OF MODEL INFRASTRUCTURAL FACILITIES AND LOGGING MACHINERY SHED.

1) 1978 (fiscal year) Total ¥ 8,207,000.–

1. Model infrastructural facilities

1-1. Construction of Forest Road (L = 1010.2 m)

1.2. Basic Improvement of PUSDIK Kehutanan

a) Model Skyline Yard (1445 $m^2$)

b) Tractor Training Yard ( 733 $m^2$)

c) Mechanical Equipment and Training Yard (2006 $m^2$)

d) Checking Pit (1 set)

e) Arch (1 set)

2) 1981 (fiscal year) Total ¥ 1,747,000.–

1. One unit of Logging Machinery Shed at Bumi Jawa

Grand Total I + II ¥ 392,649,000.–

# BERITA ACARA

## INVENTARISASI PERALATAN PROYEK MOUNTAIN LOGGING PRACTICE

MADIUN 10 JUNI 1982

BERITA ACARA

INVENTARISASI PERALATAN PROYEK MOUNTAIN LOGGING PRACTICE

Pada tanggal 5 April sampai dengan tanggal 5 Juni 1982 dalam hubungan dengan pemutupan Proyek Mountain Logging Practice, telah diadakan inventarisasi peralatan yang dilaksanakan oleh Counterpart M.L.P dan Expert Jepang (JICA) di Pusdik Kehutanan Madiun dan Bumijawa dengan hasil seperti tersebut dalam daftar terlampir.

Demikian berita acara ini dibuat dan ditanda tangani oleh kedua belah pihak untuk dapat digunakan seperlunya.

Madiun, tanggal 10 Juni 1982.

Pelaksana Inventarisasi

| I. Counterpart M.L.P | II. Counterpart M.L.P | III. Expert Jepang (JICA) |
|---|---|---|
| ( Eddy Murjanto P ). | ( D j a m a d i ). | ( Yoshikazu Tsukida ). |

Mengetahui

| Pimpinan Proyek M.L.P. | Team Leader Expert JICA |
|---|---|
| ( R. Djoenhadi ). | ( Tatsuka Numata ). |

Daftar Isi



M a d i u n, tgl. 10 J u n i 1982.

## I. Hasil Inventarisasi:

No. 1

Daftar Inventaris Kendaraan bermotor dan alat pengangkutan.

| No. | Jenis Kendaraan | No. Polisi | Data Kendaraan | | | | | BPKB No : Tanggal : | Keterangan |
|---|---|---|---|---|---|---|---|---|---|
| | | | No.Mesin | No. Rangka | CC | Tahun | Warna | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Subaru Station Wagon | AE 1039 AX | 050347 | A 67-025803 | 1600 | 1978 | Cream | 2533972.J<br>17 Maret 1979 | Keadaan jalan/baik |
| 2. | Jeep Toyota Hartop | AE 1086 AX | 2 F - 241726 | FJ 40268888 | 4000 | 1978 | Hijau | 2442 598.J<br>14 September 1978 | —"— |
| 3. | Mitsubishi Jeep (Hartop) | AE 1003 AX | 4653-14370 | J26-91062 | 2400 | 1979 | Coklat cream | 2997016.J<br>20 Nopember 1979 | —"— |
| 4. | Toyota Land Creuser | AE 1139 AX | 27500959 | FJ 60004491 | 4230 | 1980 | Biru | - | —"— |
| 5. | Toyota Land Creuser | AE 1137 AX | 270500291 | FJ 60004356 | 4230 | 1980 | Biru | - | —"— |
| 6. | Isuzu Micro Bus | AE 1012 AX | C190-415895 | KAD 51-7228154 | 2000 | 1978 | Biru putih | 2442996 J<br>29 Januari 1979 | —"— |
| 7. | Isuzu Micro Bus | AE 1011 AX | C190-415880 | KAD51-7228153 | 2000 | 1978 | Biru putih | 2442998 J<br>29 Januari 1979 | —"— |
| 8. | Isuzu Micro Bus | AE 1005 AX | 206532 | 7267131 | 2369 | 1979 | Merah cream | 2997018 J<br>20 Nopember 1979 | —"— |
| 9. | Isuzu Micro Bus | AE 1006 AX | 205527 | 7266932 | 2369 | 1979 | Merah Cream | 2997017.J<br>20 Nopember 1979 | —"— |
| 10. | Isuzu Micro Bus ( Fargo ) | AE 1150 AX | 4 FC1-108073 | WFR 51FB-4216453 | 1995 | 1981 | Coklat Susu (Beige) | - | —"— |
| 11. | Isuzu Micro Bus ( Fargo ) | AE 1149 AX | 4FC1-107431 | WFR 51FB-4215788 | 1995 | 1981 | Coklat Susu | - | —"— |
| 12. | Toyota Coaster ( Bus ) | AE 1134 AX | 0040105 | HB.10012370 | 3168 | 1980 | Putih Biru | 3857374 J | —"— |
| 13. | Yamaha Sepeda Motor | AE 1014 AX | 246-035570 | 246-035570 | 125 | 1978 | Hijau | 2443096 J<br>28 Februari 1979 | —"— |
| 14. | Yamaha Sepeda Motor | AE 1013 AX | 246-035556 | 246-035556 | 125 | 1978 | Hijau | 2443095 J<br>28 Februari 1979 | —"— |
| 15. | Suzuki Sepeda Motor | AE 1132 AX | TS125219930 4 | TS125215720 5 | 125 | 1980 | Merah putih | 3881406 J<br>5 Mei 1981 | —"— |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| 16 | Suzuki Sepeda Motor | AE 1135 AX | TS1252199305 | TS1252157204 | 125 | 1980 | Merah putih | 3881407 J<br>5 Mei 1981 | Keadaan jalan/baik |
| 17 | Mitsubishi Fuso Truck | AE 1004 AX | 6D10-150464 | FK 1037-21984 | 6000 | 1979 | Cream | 2997015 J<br>20 Nopember 1979 | —"— |
| 18 | Toyota Dyna Truck | AE 1133 AX | 0407962 | BU 20072469 | 2977 | 1980 | Biru | 3857375 J<br>23 April 1981 | —"— |
| 19 | Isuzu Truck Crane | AE 1010 AX | DA640362096 | 1262118 TWD23 | 6373 | 1978 | Biru | 2442997 J<br>29 Januari 1979 | |
| 20 | Isuzu Truck Crane | AE 1103 AX | 6 BDL-307889 | TSD 451266918 | 5393 | 1980 | Cream | 34764668 J<br>7 Oktober 1980 | |

Madiun, tgl. 5 J u n i 1982.

Pelaksana Inventarisasi

Counterpart M.L.P

(Eddy Murianto.P).

Expert ( JICA )

(Yoshikazu Tsuzida).

No. 3

## Daftar Inventaris Tractor Proyek M.L.P

| No. | Jenis barang | Type/ model | Nomer Serie | Tahun | Berat ( kg ) | Ps | Line Pull(kg) | Satuan | Banyaknya | Keterangan |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | Tractor ( Iwa Fuji ) | T 20 ISUZU 3AA 1 | 370 - 82 | - | 2600 | 27 | 3500 | Unit | 1 | Di Bumijawa |
| 2 | Tractor ( Iwa Fuji ) | T 50 ISUZU DM-100 | 504 - 09 | - | 6425 | 73 | 9000 | -"- | 1 | — " — |
| 3 | Tractor ( Iwa Fuji ) | CT 35 CAD ISUZU DA - 220 | 351906 - 84 | - | 6480 | 61 | 7000 | -"- | 2 | — " — |
| 4 | Tractor ( Iwa Fuji ) | CT 35 DAD ISUZU 6 BB 1 | 352108 - 96 | - | 7000 | 63 | 7800 | -"- | 1 | — " — |
| 5 | Tractor ( Komatsu ) | D. 50 S - 16 | 66098 | - | 13000 | 110 | 2800 | -"- | 1 | Di Pusdik Madiun |
| 6 | Pay Loader ( Komatsu ) | 510 | 151 - 74 | - | 6000 | 74 | 6000 | -"- | 1 | Di Bumijawa |
| | J u m l a h : | | | | | | | | 6 Unit | |

M a d i u n, tgl 5 Juni 1982.

Pelaksana Inventarisasi

Counterpart M.L.P

( Eddy Murjanto. P ).

Expert ( JICA )

( Yoshikazu Tsukida ).

No. 4

## Daftar Inventaris Yarder Proyek M.L.P.

| No. | Jenis Barang | Type/ Model | Nomer Serie | Tahun | Berat (kg) | P.S. | Line Pull(kg) | Satuan | Banyaknya | Keterangan |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | Yarder Iwa Fuji | Y 32 EA | 322197 | 1979-8 | 2.500 | 105 | 3370 | Unit | 1 | No. 1 s/d 16 di Bumijawa |
| 2 | - " - | Y 32 EA | 322257-08 | - | 2.500 | 105 | 3370 | " | 1 | No. 17 di Pusdik Madiun. |
| 3 | - " - | Y 32 EA | 322200 | 1979-8 | 2.500 | 105 | 3370 | " | 1 | |
| 4 | - " - | Y 32 EA | 322196 | 1979-8 | 2.500 | 105 | 3370 | " | 1 | |
| 5 | - " - | Y 32 EA | 322163 | 1978-7 | 2.500 | 105 | 3370 | " | 1 | |
| 6 | - " - | Y 32 EA | 322199 | 1979-8 | 2.500 | 105 | 3370 | " | 1 | |
| 7 | - " - | Y 32 EA | 322198 | 1979-8 | 2.500 | 105 | 3370 | " | 1 | |
| 8 | - " - | Y 32 EA | 322256-08 | - | 2.500 | 105 | 3370 | " | 1 | |
| 9 | - " - | Y 32 EA | 322162 | 1978-7 | 2.500 | 105 | 3370 | " | 1 | |
| 10 | - " - | Y 32 EA | 322164 | 1978-7 | 2.500 | 105 | 3370 | " | 1 | |
| 11 | - " - | Y 32 EA | 322258-08 | - | 2.500 | 105 | 3370 | " | 1 | |
| 12 | - " - | Y 32 EA | 322201 | 1979-8 | 2.500 | 105 | 3370 | " | 1 | |
| 13 | - " - | Y 252 E | 2107 - 08 | - | 1.850 | 67 | 3000 | " | 1 | |
| 14 | - " - | Y 252 E | 2108 - 08 | - | 1.850 | 67 | 3000 | " | 1 | |
| 15 | - " - | Y 12 EC | 142 - 8 | 1980-01 | 1.090 | 15 | 2080 | " | 1 | |
| 16 | - " - | Y 12 EC | 1425 | 1980-01 | 1.090 | 15 | 2080 | " | 1 | |
| 17 | - " - | Y 12 EC | 1365 | 1978-7 | 1.090 | 15 | 2080 | " | 1 | |
| | J u m l a h : | | | | | | | 17 | Unit | |

Madiun , tgl 5 Juni 1982

Pelaksana Inventarisasi

Counterpart M.L.P

( Eddy Murianto. P. ).

Expert ( JICA )

( Yoshikazu Tsukida ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 5

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya | | | | | | Jumlah 7 + 10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Madiun | | | Bumijawa | | | | |
| | | | | Br. | Tp. | Jmh | Br | Tp. | Jmh | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Perlatan: Skyline, Survy dan perlengkapan lainya. | | | | | | | | | | | |
| 1. | Carriage | BCC 22 | Set | 1 | - | 1 | - | - | - | 1 | |
| 2. | Carriage | BCD 34 | " | - | - | - | 5 | 6 | 11 | 11 | |
| 3. | Carriage with drum | BCE 13 | " | 3 | - | 3 | 1 | 2 | 3 | 6 | |
| 4. | Carriage with drum | B 2000 | " | - | - | - | - | - | - | - | |
| 5. | Carriage side arm | | " | - | - | - | 2 | 1 | 3 | 3 | |
| 6. | Loading block | BLS2LB | Bh. | 1 | - | 1 | - | 3 | 3 | 4 | |
| 7. | Loading block | BLS3LB | " | 4 | - | 4 | 5 | 12 | 17 | 21 | |
| 8. | Loading block | BLHA 2 | " | - | - | - | - | - | - | - | |
| 9. | Loading block | BLHA3D | " | - | - | - | - | - | - | - | |
| 10. | Saddle block | BD 20 | " | 2 | - | 2 | - | 4 | 4 | 6 | |
| 11. | Saddle block | BD 24D | " | - | - | - | 3 | 6 | 9 | 9 | |
| 12. | Saddle block | BD 28A | " | 6 | - | 6 | 11 | 14 | 25 | 31 | |
| 13. | Heel block | BH 16 | " | - | - | - | - | - | - | - | |
| 14. | Heel block | Bh 20 | " | 2 | - | 2 | - | 4 | 4 | 6 | |
| 15. | Heel block | BH 24 | " | - | - | - | - | 5 | 5 | 5 | |
| 16. | Heel block | BH 28 | " | 6 | - | 6 | 10 | 19 | 29 | 35 | |
| 17. | Skyline clamp | BG 20 | " | 2 | - | 2 | - | 2 | 2 | 4 | |
| 18. | Skyline clamp | BG 24 | " | - | - | - | - | 4 | 4 | 4 | |
| 19. | Skyline clamp | BG 28 | " | - | - | - | 7 | 6 | 13 | 13 | |
| 20. | Snatch block | BS 6 C | " | 10 | - | 10 | - | 4 | 4 | 14 | |
| 21. | Snatch block | BS 7 A | " | 85 | - | 85 | 60 | 149 | 209 | 294 | |
| 22. | Santch block | BS 9 | " | 40 | - | 40 | 53 | 130 | 183 | 223 | |
| 23. | Snatch block | BS12FE | " | - | - | - | 3 | 23 | 26 | 26 | |
| 24. | Snatch block | | " | - | - | - | - | - | - | - | |
| 25. | Spesial block | 3 inch | " | - | - | - | 29 | 7 | 36 | 36 | |
| 26. | Automatic block | BSA4A | " | 10 | - | 10 | 2 | 1 | 3 | 13 | |
| 27. | Skyline Support | BN24C | " | - | - | - | - | - | - | - | |
| 28. | Skyline Support | BN 28 | " | - | - | - | 3 | 2 | 5 | 5 | |
| 29. | Operating line Support | BP 1 | " | - | - | - | - | 1 | 1 | 1 | |
| 30. | Operating line Support | BP 3 | " | - | - | - | - | - | - | - | |
| 31. | Wire Clip | RC 10 | " | 280 | - | 280 | 93 | 143 | 236 | 516 | |
| 32. | Wire Clip | RC 12 | " | 480 | - | 480 | 60 | 670 | 730 | 1.150 | |
| 33. | Wire Clip | RC 16 | " | - | - | - | 148 | 50 | 198 | 198 | |
| 34. | Wire Clip | RC 18 | " | 5 | - | 5 | - | - | - | 5 | |
| 35. | Wire Clip | RC24-25 | " | 100 | - | 100 | 263 | 70 | 333 | 433 | |
| 36. | Wire Clip | RC 20 | " | 50 | - | 50 | 114 | 25 | 139 | 189 | |
| 37. | Shackle | 10 mm | " | 10 | - | 10 | 98 | 12 | 110 | 120 | |
| 38. | Shackle | 12 mm | " | - | - | - | - | 33 | 33 | 33 | |
| 39. | Shackle | 16 mm | " | 100 | - | 100 | - | 36 | 36 | 136 | |
| 40. | Shackle | [illegible] | " | 155 | - | 155 | - | 49 | 49 | 204 | |

| No. | Jenis Barang | Type / Ukuran | Satuan | Banyaknya | | | | | | Jumlah | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Madiun | | | Bumijawa | | | | |
| | | | | Br | Tp. | Jmh | Br | Tp | Jmh | 7 + 10 | |
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 41. | Shackle | 22 mm | Bh. | 100 | - | 100 | - | 16 | 16 | 116 | |
| 42. | Shackle | .8.mm | " | - | - | - | 150 | - | 150 | 150 | |
| 43. | Sling rope | R 1220 | " | - | - | - | - | - | - | - | |
| 44. | " " | R.1230 | " | 80 | - | 80 | 111 | - | 111 | 191 | |
| 45. | " " | R.1240 | " | 80 | - | 80 | 121 | - | 121 | 201 | |
| 46. | " " | R.1250 | " | 80 | - | 80 | 133 | - | 133 | 213 | |
| 47. | Choker hook | RHS 1 | " | 100 | - | 100 | 240 | - | 240 | 340 | |
| 48. | Aye Socket | RS 11 | " | 100 | - | 100 | 226 | - | 226 | 326 | |
| 49. | Loading hook | BLHA 3D | " | 4 | - | 4 | 4 | 16 | 20 | 24 | |
| 50. | Spesial shackle | 14-18mm | " | - | - | - | - | - | - | - | |
| 51. | " " | RP.16 | " | - | - | - | - | - | - | - | |
| 52. | Heel block with clamp | BHG 24 | " | - | - | - | - | - | - | - | |
| 53. | Split Endless drum (Y 12) | SE 12A | " | - | - | - | 1 | - | 1 | 1 | |
| 54. | " " " (Y 32) | SE 33 | " | - | - | - | 1 | 1 | 2 | 2 | |
| 55. | Interphone | Type 3 | Set | 6 | - | 6 | 1 | 10 | 11 | 17 | |
| 56. | Tirfor | TU.16 | " | 4 | - | 4 | 1 | 9 | 10 | 14 | |
| 57. | Tirfor | T.35 | " | 2 | - | 2 | - | - | - | 2 | |
| 58. | Wire stainer (Simeller) | 4 | " | 28 | - | 28 | 6 | 16 | 22 | 50 | |
| 59. | Wire splicing tool (Box) | | " | 1 | - | 1 | 7 | 6 | 13 | 16 | |
| 60. | Wire grip 10 - 12 mm | BGW 1 | Bh. | - | - | - | 18 | - | 18 | 18 | |
| 61. | " " 14 - 16 mm | BGW 2 | " | 42 | - | 42 | 48 | 41 | 89 | 131 | |
| 62. | " " 24 - 28 mm | BGW 5 | " | - | - | - | - | - | - | - | |
| 63. | Wire Cutter 16 mm | KW.3 | " | 9 | - | 9 | - | 9 | 9 | 18 | |
| 64. | " " | | " | 5 | - | 5 | - | 5 | 5 | 10 | |
| 65. | " " Hidrolic | | " | 6 | - | 6 | 2 | 3 | 5 | 11 | |
| 66. | " " 12 mm | C12 | " | 2 | - | 2 | - | 7 | 7 | 9 | |
| 67. | Tension meter | T.5 | " | - | - | - | - | - | - | - | |
| 68. | Tension meter | KMD 20 | " | - | - | - | 12 | 5 | 17 | 17 | |
| 69. | Kito (Spesial clip) | 24 mm | " | - | - | - | 9 | 14 | 23 | 23 | |
| 70. | " " | 18 mm | " | - | - | - | - | 5 | 5 | 5 | |
| 71. | " " | 16 mm | " | 20 | - | 20 | 9 | - | 9 | 29 | |
| 72. | " " | 12 mm | " | 40 | - | 40 | 31 | 15 | 46 | 86 | |
| 73. | " " | 10 mm | " | 20 | - | 20 | 26 | 9 | 35 | 55 | |
| 74. | Wire cable winder (Drum) | K.57 | " | 5 | - | 5 | 6 | 7 | 13 | 18 | |
| 75. | SKL cable protector(penahan puntir) /bozaki. | | " | 3 | - | 3 | 5 | 5 | 10 | 13 | |
| 76. | Turn Bachel | | " | 14 | - | 14 | - | 129 | 129 | 143 | |
| 77. | Tree climbing equipment/sepatu panjat | | Psg. | 12 | - | 12 | - | 16 | 16 | 28 | |
| 78. | Safety belt | T520L | Set | 22 | - | 22 | 2 | 18 | 20 | 42 | |
| 79. | Balast | | " | - | - | - | - | - | - | - | |
| 80. | " | MB 70s | " | 5 | - | 5 | - | 6 | 6 | 11 | |

| No. | Jenis Barang. | Type/ ukuran | Satuan. | Banyaknya. | | | | | | Jumlah 7 + 10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Madiun | | | Bumijawa | | | | |
| | | | | Br. | Tp. | Jmh | Br | Tp | Jmh | | |
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12. |
| 81. | Sling belt | | Bh. | 8 | - | 8 | 1 | 5 | 6 | 14 | |
| 82. | Heel line Clamp | MB 150 | " | - | - | - | - | 11 | 11 | 11 | |
| 83. | Heel Clamp 12 - 14 mm | MB 150 | " | - | - | - | - | - | - | - | |
| 84. | Artifical Tower Botom (bawah) | | " | - | - | - | - | 8 | 8 | 8 | |
| 85. | " " Top (atas) | | " | - | - | - | - | 8 | 8 | 8 | |
| 86. | " " Medle (tengah) | | " | - | - | - | - | 40 | 40 | 40 | |
| 87. | Jek bobin | | Set. | 5 | - | 5 | - | 13 | 13 | 18 | 5 rusak ( B.J.). |
| 88. | Hamer 5 kg | | Bh. | 1 | - | 1 | - | 1 | 1 | 2 | |
| 89. | Tangga pipa | | " | - | - | - | - | 3 | 3 | 3 | |
| 90. | Landasan panjat pohon | | " | 11 | - | 11 | - | 2 | 2 | 13 | |
| 91. | Hook | | " | - | - | - | 225 | 5 | 230 | 230 | |
| 92. | Regging rope | 24 mm | " | 20 | - | 20 | 20 | 35 | 55 | 75 | |
| 93. | " " | 22 mm | " | - | - | - | 5 | - | 5 | 5 | |
| 94. | Nylon rope 2000 m | ø 9mm | Bobin | - | - | - | 5 | - | 5 | 5 | |
| 95. | " " 1500 m | " | " | - | - | - | 4 | 2 | 6 | 6 | |
| 96. | " " 1000 m | ø 11 mm | Bobin | 6 | - | 6 | - | - | - | 6 | |
| 97. | Carriage | BCG 34 | Bh | - | - | - | - | 3 | 3 | 3 | |
| 98. | Carriage | BCD 34 L | " | 4 | - | 4 | - | 6 | 6 | 10 | |
| 99. | Skyline clamp | BG 28 SA | " | 3 | - | 3 | - | 2 | 2 | 5 | |
| 100. | Heel clamp | BHG 20 A | " | 4 | - | 4 | - | - | - | 4 | |
| 101. | Loading Hook | BLH D 2 | " | 1 | - | 1 | - | - | - | 1 | |
| 102. | Zig Zag block | BZ. 9 | " | 20 | - | 20 | 4 | 6 | 10 | 30 | |
| 103. | Shackle | 32 mm | " | 30 | - | 30 | - | 24 | 24 | 54 | |
| 104. | Spike | | Bkr. | 59 | - | 59 | - | - | - | 59 | |
| 105. | Kabel telepon 1000 m | | Bbn | 6 | - | 6 | 6 | - | 6 | 12 | |
| 106. | " " 500 m | | rool | - | - | - | 8 | - | 8 | 8 | |
| 107. | Tobi kecil | | Bh. | 38 | - | 38 | - | 3 | 3 | 41 | |
| 108. | Tobi besar | | " | 52 | - | 52 | - | 4 | 4 | 56 | |
| 109. | Ganta (mengungkit) | | " | 12 | - | 12 | - | 1 | 1 | 13 | |
| 110. | Scoop | | " | 24 | - | 24 | 9 | 4 | 13 | 37 | |
| 111. | Chain Saw merk Dolmar 133 & 123 | | Unit | 5 | - | 5 | - | 6 | 6 | 11 | 1 Rusak ( B. J.) |
| 112. | Helmet Putih | | Bh. | - | - | - | - | - | - | - | |
| 113. | " Kuning | | " | 65 | - | 65 | - | - | - | 65 | |
| 114. | Pole | | " | 26 | - | 26 | - | 8 | 8 | 34 | |
| 115. | Comma (Ushikata) | | " | - | 1 | 1 | 3 | 5 | 8 | 9 | |
| 116. | Tripod | | " | - | - | - | 4 | 11 | 15 | 15 | |
| 117. | Measure tape (meteran) rol | 100 m | " | - | - | - | - | - | - | - | |
| 118. | " " " | 50 m | " | 5 | - | 5 | 6 | 5 | 11 | 16 | |
| 119. | " " " | 30 m | " | - | - | - | 1 | - | 1 | 1 | |
| 120. | " " " rope | 100 m | " | 25 | - | 25 | - | 4 | 4 | 29 | |

No. 8

| No. | Jenis Barang | Type/ Ukuran | Satuan | Banyaknya Madiun Br | Madiun Tp | Madiun Jmh | Bumi jawa Br | Bumi jawa Tp | Bumi jawa Jmh | Jumlah 7 + 10 | Keterangan |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 121 | Measure tape (Meteran)rope | 50 M | Bh. | 13 | - | 13 | - | 5 | 5 | 18 | |
| 122 | " " " " | 30 M | " | - | - | - | - | - | - | - | |
| 123 | Wolky Tolky (Sony) | ICB680 | Set | 5 | - | 5 | - | 2 | 2 | 7 | |
| 124 | Stop Watch | | bh | 5 | - | 5 | - | - | - | 5 | |
| 125 | Way Hook (untuk HBL) | RHS 5 | " | - | - | - | 2 | 1 | 3 | 3 | |
| 126 | Swivel (automat HBL) | MM 20 | " | 12 | - | 12 | - | - | - | 12 | |
| 127 | " " | MM 30 | " | 10 | - | 10 | - | - | - | 10 | |
| 128 | Guide block pin | | " | 30 | - | 30 | - | - | - | 30 | |
| 129 | Wire Cutter model marble | | " | 30 | - | 30 | - | - | - | 30 | |
| 130 | " " | KW 1 C | " | - | - | - | - | - | - | - | |
| 131 | " Clip | RC 14 | " | - | - | - | 30 | - | 30 | 30 | |
| 132 | Spike besar | | " | 24 | - | 24 | - | - | - | 24 | |
| 133 | Handy Saw (gergaji) | 30 cm | - | 30 | - | 30 | 25 | - | 25 | 55 | |
| 134 | " Chopper (parang) | 21 cm | - | 30 | - | 30 | 30 | - | 30 | 60 | |
| 135 | Heling Meter (Tamaya) | | - | - | - | - | - | 8 | 8 | 8 | |
| 136 | " . " (Precent/Degrees) | | - | - | - | - | - | 3 | 3 | 3 | |
| 137 | " " panjang | | - | - | - | - | - | 2 | 2 | 2 | |
| 138 | Wire rope 2000 m | Ø 10 mm | Bobin | 10 | - | 10 | - | - | - | 10 | |
| 139 | " " 1500 m | Ø 10 mm | " | - | - | - | 4 | 7 | 13 | 13 | |
| 140 | " " 1000 m | Ø 10 mm | " | - | - | - | - | 2 | 2 | 2 | |
| 141 | " " 700 m | Ø 10 mm | " | - | - | - | - | 2 | 2 | 2 | |
| 142 | " " 1500 m | Ø 12 mm | " | - | - | - | 6 | 3 | 9 | 9 | |
| 143 | " " 1000 m | Ø 12 mm | " | 48 | - | 48 | 5 | 11 | 16 | 64 | |
| 144 | " " 700 m | Ø 12 mm | " | - | - | - | 1 | 3 | 4 | 4 | |
| 145 | " " 1000 m | Ø 14 mm | " | 6 | - | 6 | - | - | - | 6 | |
| 146 | " " 500 m | Ø 18 mm | " | - | - | - | 4 | 2 | 6 | 6 | |
| 147 | " " 1000 m | Ø 22 mm | " | - | - | - | 1 | - | 1 | 1 | |
| 148 | " " 1000 m | Ø 24 mm | " | 10 | - | 10 | 2 | 9 | 11 | 21 | |
| 149 | " " 700 m | Ø 24 mm | " | - | - | - | 2 | 1 | 3 | 3 | |
| 150 | Blade grip | — | Bh | 40 | - | 40 | - | - | - | 40 | |

Madiun .....tgl. 6 Juni .....1982.

Keterangan :
Br : Keadaan baru
Tp. : Terpakai.
Jmh : Jumlah

Pelaksana Inventarisasi

1.Counterpart MLP.

Eddy Murjanto. P.
(.....)

3. Expert (Jica).

Yoshikazu Tsukida
(.....)

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 9

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Kantor : | | | | | | | | | | | |
| 1 | Penggaris logam | 1 M | bh. | 2 | - | 2 | - | - | - | 2 | |
| 2 | " " | 60 Cm. | " | 3 | - | 3 | - | - | - | 3 | |
| 3 | " plastik | 60 Cm | " | 35 | - | 35 | - | - | - | 35 | |
| 4 | " Kayu & plastik ( T ) | | " | 11 | - | 11 | - | - | - | 11 | |
| 5 | Papan gambar (Lion) | 60x90x3 Cm | " | 4 | - | 4 | - | - | - | 4 | |
| 6 | Lise max staples | | " | 2 | - | 2 | - | - | - | 2 | |
| 7 | Max | T3-13H | " | 38 | - | 38 | - | - | - | 38 | |
| 8 | Duplo mate (mesin Roneo) | M.750 | " | - | 1 | 1 | - | - | - | 1 | |
| 9 | Duplo Fax (mesin Sheet) | R.500 | " | - | 1 | 1 | - | - | - | 1 | |
| 10 | Mesin Copy | KLO 800 | " | - | 1 | 1 | - | - | - | 1 | Rusak |
| 11 | Mesin Copy Toshiba Fax | BD 702 A | " | - | 1 | 1 | - | - | - | 1 | Rusak |
| 12 | Mesin Copy | DT 850 | " | - | 2 | 2 | - | - | - | 2 | |
| 13 | Mesin Copy Ricoh | DT 5700 Rb | " | - | 1 | 1 | - | - | - | 1 | |
| 14 | Lampu copy fax | - | " | 1 | - | 1 | - | - | - | 1 | |
| 15 | Almari (kabinet) laci 4 | S 1033 | " | - | 3 | 3 | - | - | - | 3 | |
| 16 | " " pintu 2 | besar | " | - | 3 | 3 | - | - | - | 3 | |
| 17 | " " laci banyak | pendek | " | - | 3 | 3 | - | - | - | 3 | |
| 18 | Meja gambar plainder | - | " | - | 1 | 1 | - | - | - | 1 | |
| 19 | Pisau potong kertas copy | - | " | - | 2 | 2 | - | - | - | 2 | |
| 20 | Mesin Tik Olivetti Studio | 46 | " | - | 2 | 2 | - | - | - | 2 | |
| 21 | Mesin Tik Universal | 200 | " | - | 1 | 1 | - | - | - | 1 | |
| 22 | Mesin tik Plus | PW 75 | " | - | 1 | 1 | - | 1 | 1 | 2 | |
| 23 | Mesin tik Plus | PW 81 | " | - | - | - | - | 1 | 1 | 1 | |
| 24 | Pocket Computer | Pc 1.300 | " | - | 1 | 1 | - | - | - | 1 | |
| 25 | Jangka (Lion) | | " | 4 | - | 4 | - | 9 | 9 | 13 | |
| 26 | Rool Isolasi | | " | 1 | - | 1 | - | - | - | 1 | |
| 27 | Stapler max | HD 3 | " | 5 | - | 5 | - | - | - | 5 | |
| 28 | " " | HD 10 | " | 24 | - | 24 | - | - | - | 24 | |
| 29 | Penggaris segitiga skala | Siga | " | 32 | - | 32 | - | - | - | 32 | |
| 30 | Penggaris busur 360 ° | | " | 64 | - | 64 | - | - | - | 64. | |
| 31 | Penggaris segi tiga | A312 | " | 30 | - | 30 | - | - | - | 30 | |
| 32 | Calculator casio | J 1 | " | 5 | 17 | 22 | - | 2 | 2 | 24 | 3 Rusak |
| 33 | " " | Fx 140 | " | - | 1 | 1 | - | - | - | 1 | Rusak |
| 34 | Architectural Carves | 24 cm | " | 2 | - | 2 | - | - | - | 2 | |
| 35. | " " | 18 cm | " | 3 | - | 3 | - | - | - | 3 | |

Madiun tgl. 6 Juni 1982.

Keterangan :
Br : Keadaan Baru.
Tp : Terpakai.
Jmh : Jumlah.

Pelaksana Inventarisasi.

1. Counterpart MLP. ( Eddy Murjanto.P )

2. Expert ( Jica ). ( Yoshikazu Tsukida ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 10

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Kantor. | | | | | | | | | | | |
| 1 | Pencil Mitsubishi ( Uni) | | bh. | 156 | - | 156 | - | - | - | 156 | |
| 2 | Auto number (Plus) | Ad | " | 1 | - | 1 | - | - | - | 1 | |
| 3 | Jangka perbandingan ukuran | | " | 7 | - | 7 | - | - | - | 7 | |
| 4 | Gunting kertas | | " | 12 | - | 12 | - | - | - | 12 | |
| 5 | Papan skedule (jadwal) | | " | - | 2 | 2 | - | - | - | 2 | |
| 6 | Sharp pensil Mitsubishi | | " | 20 | - | 20 | - | - | - | 20 | |
| 7 | Conde Cutter | | " | 1 | - | 1 | - | - | - | 1 | |
| 8 | Stip battry | | " | - | 1 | 1 | - | - | - | 1 | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
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| 12. | | | | | | | | | | | |
| 13. | | | | | | | | | | | |
| 14. | | | | | | | | | | | |
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| 35. | | | | | | | | | | | |

Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Madiun tgl. 6 Juni 1982.

Pelaksana Inventarisasi.

1. Counterpart MLP. ( Eddy Murjanto.P )

2. Expert ( Jica ). ( Yoshikawa Tsukida ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 11.....

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Optical, Electric dan perlengkapannya. | | | | | | | | | | | |
| 1 | Transit Survey | | bh. | 1 | - | 1 | - | - | - | 1 | |
| 2 | Alat Survey (Box kayu) | | " | 1 | - | 1 | - | - | - | 1 | |
| 3 | Proyektor 8 mm Technicolor Silent 820 | | " | - | 1 | 1 | - | - | - | 1 | |
| 4 | Camera Elmo Super 306 | 8 mm | " | - | 1 | 1 | - | - | - | 1 | |
| 5 | Scope lens (canon) | 16 - CL | " | 1 | - | 1 | - | - | - | 1 | |
| 6 | " " (Elmo ) | 16 - A | " | 1 | - | 1 | - | - | - | 1 | |
| 7 | Altimeter | NO; 13051 | " | 1 | - | 1 | - | - | - | 1 | |
| 8 | Camera Asahi Pentax | ME | " | - | 2 | 2 | - | - | - | 2 | |
| 9 | Zoom Lens | 80 - 200 mm | " | - | 1 | 1 | - | - | - | 1 | |
| 10 | Wideangle Zoom lens | | " | - | 1 | 1 | - | - | - | 1 | |
| 11 | Telephoto Zoom lens | | " | - | 1 | 1 | - | - | - | 1 | |
| 12 | Lampu asahi Pentax | | " | - | 1 | 1 | - | - | - | 1 | |
| 13 | Kompas mini ( Hops ) | | " | - | 1 | 1 | - | - | - | 1 | |
| 14 | Teleskop Nikon | | " | - | - | - | - | 2 | 2 | 2 | |
| 15 | Proyektor Elmo | K. 100 SM | " | - | 1 | 1 | - | - | - | 1 | |
| 16 | Video Cassette Recorder | HR.4100 | " | - | 1 | 1 | - | - | - | 1 | |
| 17 | Sony stereo Cassette Recorder | TC 2500 | " | - | - | - | - | - | 1 | 1 | |
| 18 | Video Munitor (Sony) | PUM 9000 | " | - | 1 | 1 | - | - | - | 1 | |
| 19 | " Camera Victor (+kaki) | CVG 70 | " | - | 1 | 1 | - | - | - | 1 | |
| 20 | Projektor Slide (Elmo) | A.30 | " | - | 1 | 1 | - | - | - | 1 | |
| 21 | Polaroid land Camera | | " | - | 1 | 1 | - | - | - | 1 | |
| 22 | Topcon (untuk melihat Foto Udara) | | " | 2 | - | 2 | - | 1 | 1 | 3 | |
| 23 | Video Munitor Color (Victor) | C.8202 B | " | - | 1 | 1 | - | - | - | 1 | |
| 24 | Sound Projector Elmo 16 mm | 16 AA 100W | Set | - | 1 | 1 | - | - | - | 1 | |
| 25 | Overhead Proyector Elmo | HP 3300 | " | - | 1 | 1 | - | - | - | 1 | |
| 26 | Power pack 9v Canon (kabel) | | bh. | 1 | - | 1 | - | - | - | 1 | |
| 27 | Car battry Cord (kabel) | DCC 127 A | " | 3 | - | 3 | - | - | - | 3 | |
| 28 | " " " " | RR 105 A | " | 2 | - | 2 | - | - | - | 2 | |
| 29 | " " " " | BC 5 A | " | 7 | - | 7 | - | - | - | 7 | |
| 30 | " " " " | DCC 15 | " | 2 | - | 2 | - | - | - | 2 | |
| 31 | Adaptor AC ( Casio) | 100 V | " | 40 | - | 40 | - | - | - | 40 | |
| 32 | " " (victor) | CVEH 110 | " | 1 | - | 1 | - | - | - | 1 | |
| 33 | Mini plug (jek) | PC 1 H | " | 3 | - | 3 | - | - | - | 3 | |
| 34 | " " " | PC 2 H | " | 1 | - | 1 | - | - | - | 1 | |
| 35 | Microphone (Sony) | ECM 99A | " | 2 | - | 2 | - | - | - | 2 | |

Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Madiun tgl. 6 Juni 1982.

Pelaksana Inventarisasi.

1. Counterpart MLP.

( Eddy Murjanto.P )

2. Expert ( Jica ).

( Yoshikazu Tsukide )

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 12

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Optica, Electric dan perlengkapanya. | | | | | | | | | | | |
| 1 | Kabel Video (Victor) | AP - P 10 | bh. | 2 | - | 2 | - | - | - | 2 | |
| 2 | Video Camera (kabel) | VC 8043 | " | 1 | - | 1 | - | - | - | 1 | |
| 3 | Microphone (Canon) | | " | - | 2 | 2 | - | - | - | 2 | |
| 4 | AC Adaptor | CV AC 210 | " | - | 1 | 1 | - | - | - | 1 | |
| 5 | Battry Pack ( SONY ) | BP 80 J | " | 2 | - | 2 | - | - | - | 2 | |
| 6 | Ac Adaptor (Victor) | AAP 41 | " | - | 1 | 1 | - | - | - | 1 | |
| 7 | Editor (potong,sambung Film 8 mm) | 912 | " | - | 1 | 1 | - | - | - | 1 | |
| 8 | Kabel battry besar (Video) | | " | - | 1 | 1 | - | - | - | 1 | |
| 9 | Cassette Video (Victor) | T 120 E | " | 22 | 8 | 30 | - | - | - | 30 | |
| 10 | Cassette kosong (sony) | C 90 | " | 29 | - | 29 | - | - | - | 29 | |
| 11 | Film Slide | | Set | - | 2 | 2 | - | - | - | 2 | |
| 12. | Film 8 mm | | bh | - | 2 | 2 | - | - | - | 2 | |
| 13. | Film Slide Chain Sow dll | | Set | - | 3 | 3 | - | - | - | 3 | |
| 14. | Cabin Slide magamine | | bh. | 8 | - | 8 | - | - | - | 8 | |
| 15 | Lampu proyektor (Fuji / Elmo) | | " | 23 | - | 23 | - | - | - | 23 | |
| 16 | " " (Flecta) | | " | 4 | - | 4 | - | - | - | 4 | |
| 17 | Layar putih (Screen) | besar | " | - | - | - | - | 1 | 1 | 1 | |
| 18 | " " " | Sedang | " | - | 1 | 1 | - | - | - | 1 | |
| 19 | " " " | Kecil | " | - | 1 | 1 | - | - | - | 1 | |
| 20 | Tester (Electric) | | " | 3 | - | 3 | - | - | - | 3 | |
| 21 | Camera Canon 8 mm | 514 XL-S | " | - | 1 | 1 | - | - | - | 1 | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
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| 31 | | | | | | | | | | | |
| 32 | | | | | | | | | | | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 35. | | | | | | | | | | | |

Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Madiun tgl. 6 Juni 1982.

Pelaksana Inventarisasi.

1. Counterpart MLP.

( Eddy Murjanto.P )

2. Export ( Jica ).

( Yoshikazu Tsukida ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 13

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Perlengkapan (kantor, lapangan dan pendidikan ) | | | | | | | | | | | |
| 1 | Sepatu (Jikatabi) | No: 24 | Pas | 2 | - | 2 | 3 | - | 3 | 5 | |
| 2 | " " | No: 24,5 | " | 61 | - | 61 | 4 | - | 4 | 65 | |
| 3 | " " | No: 25 | " | 35 | - | 35 | 8 | - | 8 | 43 | |
| 4 | " " | No: 25,5 | " | 60 | - | 60 | - | - | - | 60 | |
| 5 | " " | No: 26 | " | 60 | - | 60 | 3 | - | 3 | 63 | |
| 6 | | No: 27 | " | 30 | - | 30 | - | - | - | 30. | |
| 7 | Sarung tangan katun | | " | 350 | - | 350 | 12 | - | 12 | 362 | |
| 8 | " " " plastik | | " | 200 | 9 | 209 | 24 | - | 24 | 233 | |
| 9 | " " " karet | | " | - | - | - | 24 | - | 24 | 24 | |
| 10 | " " kulit | | " | 200 | 10 | 210 | 36 | - | 36 | 246. | |
| 11 | Tas kulit (hitam ) | | bh. | 3 | - | 3 | - | - | - | 3 | |
| 12. | Kompas (cooklat) | | " | 23 | - | 23 | - | - | - | 23 | |
| 13. | Meteran ø batang kayu | | " | 11 | - | 11 | - | - | - | 11 | |
| 14. | Alat pengukur Umur pohon | | " | 1 | - | 1 | - | - | - | 1 | |
| 15 | Meteran logam | 1 M | " | 3 | - | 3 | - | - | - | 3 | |
| 16 | " KAyu | 1 M | " | 2 | - | 2 | - | - | - | 2 | |
| 17 | Timbangan kekuatan | 1 kg | " | 5 | - | 5 | - | - | - | 5 | |
| 18 | Pemadam kebakaran Neo Dry | SP 10 H | " | 8 | - | 8 | 11 | - | 11 | 19 | |
| 19 | " " | FH 10 | " | 1 | 3 | 4 | 1 | - | 1 | 5 | |
| 20 | Air filter(water germcidal) | AU-1 | " | 2 | - | 2 | - | - | - | 2 | |
| 21 | Almari gantung (kabinet) | | " | 7 | - | 7 | - | 4 | 4 | 11 | |
| 22 | " perlengkapan " (pintu 9) | | " | - | - | - | - | 4 | 4 | 4 | |
| 23 | Almari es Polar Refrigerator | MRA 078 | " | - | 1 | 1 | - | 2 | 2 | 3 | |
| 24 | Peluit ( Whistle) | | " | 93 | - | 93 | - | - | - | 93 | |
| 25 | Knap sack | | " | 16 | - | 16 | - | - | - | 16 | |
| 26 | Cover water proof (doklit) | 3 x 6 M | " | 20 | - | 20 | - | - | - | 20 | |
| 27 | " " " " | 6 x 6 M | " | 20 | - | 20 | - | - | - | 20 | |
| 28 | Vinyl Suit (jas hujan) | L & M | " | 50 | - | 50 | 17 | - | 17 | 67 | |
| 29 | Helmet lining | | " | 100 | - | 100 | - | - | - | 100 | |
| 30 | Cat Spry | putih | " | 24 | - | 24 | 18 | - | 18 | 42 | |
| 31 | " " | Merah | " | 24 | - | 24 | 15 | - | 15 | 39 | |
| 32 | " " | Biru | " | - | - | - | 21 | - | 21 | 21 | |
| 33 | Mesin Cuci Hitachi | PS 330 P | " | - | - | - | - | 2 | 2 | 2 | |
| 34 | Tackle blocks (kayu) | | Set | 1 | - | 1 | - | - | - | 1 | |
| 35. | Pita Survey (angka) | | Pak | 41 | - | 41 | - | - | - | 41 | |

Madiun tgl. 6 Juni 1982.

Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Pelaksana Inventarisasi.

1. Counterpart MLP.

( Eddy Murjanto.P )

2. Expert ( Jica ).

( Yoshikazu Tsukida ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 14

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Perlengkapan ( kantor, lapangan dan pendidikan. | | | | | | | | | | | |
| 1 | Block mini set | | Set | 1 | - | 1 | - | - | - | 1 | |
| 2 | Pantograph block 80 | | " | 1 | - | 1 | - | - | - | 1 | |
| 3 | Alat peragaan momen & mentenance | | " | - | 1 | 1 | - | - | - | 1 | |
| 4 | Vinyle tape : yellow,red, blue | | bh. | 90 | - | 90 | - | - | - | 90 | |
| 5 | Curvimeter | | " | 1 | - | 1 | - | 1 | 1 | 2 | |
| 6 | Counter (alat penghitung) | | " | 2 | - | 2 | - | - | - | 2 | |
| 7 | Heling meter | SSK | " | 1 | - | 1 | - | - | - | 1 | |
| 8 | Planimeter (Ushikata) | | " | 4 | - | 4 | - | - | - | 4 | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12. | | | | | | | | | | | |
| 13. | | | | | | | | | | | |
| 14. | | | | | | | | | | | |
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| 31 | | | | | | | | | | | |
| 32 | | | | | | | | | | | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 35. | | | | | | | | | | | |

Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Madiun tgl. 6 Juni 1982.

Pelaksana Inventarisasi.

1.Counterpart MLP.

( Eddy Murjanto.P )

2. Expert ( Jica ).

( Yoshikazu Tsukide ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 15

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Listrik , Pengkela teknik dll. | | | | | | | | | | | |
| 1 | Denyo Power 2400 (Generator) EY 25 | | Unit | - | 1 | 1 | - | 2 | 2 | 3 | |
| 2 | " " " (Generator) EY 25 D | | " | - | 2 | 2 | - | - | - | 2 | |
| 3 | " " 2400 (generator) AGD 120E | | " | - | - | - | - | 1 | 1 | 1 | |
| 4 | Trasformer (Yamabishi)22,7KVA,YT220-5K | | " | 1 | - | 1 | - | - | - | 1 | |
| 5 | " " Stad - 3 | KWA AB-0394 | " | - | 1 | 1 | - | 1 | 1 | 2 | |
| 6 | Transformator | 110V 2 kw | " | 2 | 1 | 3 | - | - | - | 3 | |
| 7 | Electric Weldar | BS 200 P | " | 2 | - | 2 | - | - | - | 2 | |
| 8 | Battry Charger | HRC 3510 | " | - | 1 | 1 | - | 1 | 1 | 2 | |
| 9 | Trasformer | UC-151,5KW | " | - | - | - | - | 1 | 1 | 1 | |
| 10 | Vulcamiser electric set | AR E3S | Set | 2 | 1 | 3 | - | 1 | 1 | 4 | |
| 11 | Alat pertukangan (Listrik) | Hitachi | " | 1 | - | 1 | - | - | - | 1 | |
| 12 | " " " | Makita | " | 1 | - | 1 | - | - | - | 1 | |
| 13 | Pengukur tekanan (box) Bonsai DG 7 L | | " | 1 | - | 1 | - | - | - | 1 | |
| 14 | Cilinder liner puller | CLP 75 | " | 1 | - | 1 | - | - | - | 1 | |
| 15 | Power HYM ( Bonsai ) | OF 108 | " | 1 | - | 1 | - | - | - | 1 | |
| 16 | Soldering iron | - | " | 3 | - | 3 | - | - | - | 3 | |
| 17 | Steam cleaner Bonsai | SW 250 K | " | - | 1 | 1 | - | - | - | 1 | |
| 18 | Universal Puller set (truck & Traktor) | | " | - | 1 | 1 | - | - | - | 1 | |
| 19 | Parts washing stand(Bonsai) | WS 25 | " | - | 1 | 1 | - | - | - | 1 | |
| 20 | Bench Grinder (gerenda) | EHK 2 | bh. | - | 1 | 1 | - | - | - | 1 | |
| 21 | Air Compressor | OS-107 NB-1A | " | - | 1 | 1 | - | - | - | 1 | |
| 22 | NOssle tester | NPA | " | - | 1 | 1 | - | - | - | 1 | |
| 23 | Jack kecil 5 ton | | " | - | 8 | 8 | - | 16 | 16 | 24 | |
| 24 | Kabel listrik rool | AO 30 MS | Rool | - | 1 | 1 | - | 4 | 4 | 5 | |
| 25 | Tanggem | | bh | - | 1 | 1 | - | 1 | 1 | 2 | |
| 26 | Bak service (Tap) | | " | 3 | 4 | 7 | 1 | 10 | 11 | 18 | |
| 27 | Steel Creeper (Landasan pekerja) SC5B | | " | - | 1 | 1 | - | 2 | 2 | 3 | |
| 28 | Hidrolic Jack | | " | - | 1 | 1 | - | - | - | 1 | |
| 29 | Chain block | | Set | 3 | 1 | 4 | 3 | - | 3 | 7 | |
| 30 | Bak tambal ban (merah) | | bh | 1 | - | 1 | - | - | - | 1 | |
| 31 | Landasan pemukul (paron) | | " | 3 | - | 3 | 4 | 4 | 8 | 11 | |
| 32 | Box kosong | besar | " | 16 | - | 16 | 2 | 13 | 15 | 31 | |
| 33 | " " | Sedang | " | 1 | - | 1 | - | - | - | 1 | |
| 34 | " " | Kecil | " | 1 | - | 1 | - | - | - | 1 | |
| 35. | Tool Box Yarder | " | " | 4 | - | 4 | - | - | - | 4 | |

Madiun tgl. 6 JUNI 1982.

Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Pelaksana Inventarisasi.

1. Counterpart MLP.

( Eddy Murjanto.P )

2. Expert ( Jica ).

( Yoshikazu Tsukida ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 16

| No. | J e n i s B a r a n g. | Type / Ukuran. | Satuan. | B a n y a k n y a. | | | | | | Jumlah | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Madiun | | | Bumijawa | | | | |
| | | | | Br | Tp | Jmh | Br | Tp | Jmh | 7+10 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Listrik, Bengkel, Teknik dll. | | | | | | | | | | | |
| 1 | Torque Wrench (Momen) | Model 2200 | bh. | 13 | - | 13 | - | - | - | 13 | |
| 2 | " " " | " 1200 | " | 8 | - | 8 | - | - | - | 8 | |
| 3 | Ratchet wrench | 17 mm | " | 78 | - | 78 | 6 | - | 6 | 84 | |
| 4 | " " | 19 mm | " | 54 | - | 54 | 6 | - | 6 | 60 | |
| 5 | " " | 10/12 mm | " | 24 | - | 24 | 7 | - | 7 | 31 | |
| 6 | Hydrometer (Battry) | | " | 5 | - | 5 | - | - | - | 5 | |
| 7 | Slide Caliper (Sketmat) | | " | 3 | - | 3 | - | - | - | 3 | |
| 8 | Carpenter's rule | | " | 3 | - | 3 | - | - | - | 3 | |
| 9 | Signes gauge | | " | 5 | - | 5 | - | - | - | 5 | |
| 10 | File (kikir pipih) | | " | 10 | - | 10 | - | - | - | 10 | |
| 11 | Spaner (kunci pas) | BT 9 | " | 10 | - | 10 | - | - | - | 10 | |
| 12 | " " | BT 6 a | " | 10 | - | 10 | - | - | - | 10 | |
| 13 | " " | Inc | " | 7 | - | 7 | - | - | - | 7 | |
| 14 | Spectacles wrench (kunci ring) | BT 200 | " | 11 | - | 11 | - | - | - | 11 | |
| 15 | Monkey wrench (Kunci Inggris) | BS 8 | " | 12 | - | 12 | - | - | - | 12 | |
| 16 | " " " " | BS 12 | " | 10 | - | 10 | - | - | - | 10 | |
| 17 | Spanner set (kunci pas) | | " | 5 | - | 5 | - | - | - | 5 | |
| 18 | Plier (tang) | | " | 10 | - | 10 | - | - | - | 10 | |
| 19 | Screw driver + (panjang) | | " | 20 | - | 20 | - | - | - | 20 | |
| 20 | " " - ( " ) | | " | 20 | - | 20 | - | - | - | 20 | |
| 21 | " " + (pendek) | | " | 6 | - | 6 | - | - | - | 6 | |
| 22 | " " - (pendek) | | " | 6 | - | 6 | - | - | - | 6 | |
| 23 | Hamer | | " | 10 | - | 10 | - | - | - | 10 | |
| 24 | Rubber hamar | | " | 10 | - | 10 | 10 | - | 10 | 20 | |
| 25 | Plastic hammer | | " | 10 | - | 10 | 9 | - | 9 | 19 | |
| 26 | COpper hammer | | " | 10 | - | 10 | - | - | - | 10 | |
| 27 | Test hammer | | " | - | - | - | 8 | - | 8 | 8 | |
| 28 | Hammer kayu | | " | - | - | - | 8 | - | 8 | 8 | |
| 29 | Wire Brush | | " | 10 | - | 10 | 7 | - | 7 | 17 | |
| 30 | " " | | " | 10 | - | 10 | - | - | - | 10 | |
| 31 | Oiler | | " | 10 | - | 10 | - | - | - | 10 | |
| 32 | Kikir besar (Bamsai) | | Set | 4 | - | 4 | - | - | - | 4 | |
| 33 | Vessel Rembew (Driver) | 700 D | " | 2 | - | 2 | - | - | - | 2 | |
| 34 | Rang kabel (kecil) | | bh. | 5 | - | 5 | - | - | - | 5 | |
| 35. | Kunci L | | Set | 2 | - | 2 | - | - | - | 2 | |

Madiun tgl. 6 Juni 1982.

Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Pelaksana Inventarisasi.

1. Counterpart MLP. ( Eddy Purjanto.P )

2. Expert ( Jica ). ( Yoshikazu Tsukida ).

Rekapitulasi hasil Inventarisasi peralatan Proyek MLP di Madiun dan Bumijawa.

( Keadaan peralatan setelah selesai training dari April 1978 s/d Juni 1982 )

Dalam rangka Kerja sama Perhutani dengan Jica (ATA-184). No: 17

| No. | Jenis Barang. | Type / Ukuran. | Satuan. | Banyaknya. Madiun Br | Tp | Jmh | Bumijawa Br | Tp | Jmh | Jumlah 7+10 | Keterangan. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Peralatan : Listrik, Pengkel, Teknik dll. | | | | | | | | | | | |
| 1 | Tang (sedang) | | Bh | 1 | - | 1 | - | - | - | 1 | |
| 2 | Batu gerenda | | " | 9 | - | 9 | - | - | - | 9 | |
| 3 | Gerenda pembersih | | " | 3 | - | 3 | - | - | - | 3 | |
| 4 | Kunci pipa besar | | " | 3 | - | 3 | - | - | - | 3 | |
| 5 | " " sedang | | " | 1 | - | 1 | - | - | - | 1 | |
| 6 | " " kecil | | " | 2 | - | 2 | - | - | - | 2 | |
| 7 | Gris Gun besar | | " | 5 | - | 5 | - | - | - | 5 | |
| 8 | " " kecil | | " | 5 | - | 5 | - | - | - | 5 | |
| 9 | " " sedang | | " | 1 | - | 1 | - | - | - | 1 | |
| 10 | Kombinasi level | | " | 3 | - | 3 | - | - | - | 3 | |
| 11 | Automatic driver | | " | 5 | - | 5 | - | - | - | 5 | |
| 12. | Driver kecil (tangkai kuning) | | " | 3 | - | 3 | - | - | - | 3 | |
| 13. | Gun service Iwata | BC 5 | " | 2 | - | 2 | - | - | - | 2 | |
| 14. | Literan pakai paruh (plastik) | | " | 4 | - | 4 | - | - | - | 4 | |
| 15 | Snap ring tang | | " | - | - | - | 7 | - | 7 | 7 | |
| 16 | Tang spesial (almunium) | | " | - | - | - | 5 | - | 5 | 5 | |
| 17 | Betel | | " | - | - | - | 14 | - | 14 | 14 | |
| 18 | Almunium pipe presser | LH 16 | " | 3 | - | 3 | - | - | - | 3 | |
| 19 | " " diameter | 10 mm | " | 80 | - | 80 | - | - | - | 80 | |
| 20 | " " " | 12 mm | " | 380 | - | 380 | - | - | - | 380 | |
| 21 | Literan | So2 | " | - | - | - | 5 | - | 5 | 5 | |
| 22 | Tire chain for logging truk | T 20 | " | 8 | - | 8 | - | - | - | 8 | |
| 23 | " " " " " | T 50 | " | 8 | - | 8 | - | - | - | 8 | |
| 24 | Pompa air Robin 1 PS | EO 03 | " | 1 | - | 1 | - | 1 | 1 | 2 | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
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Keterangan :

Br : Keadaan Baru.

Tp : Terpakai.

Jmh : Jumlah.

Madiun tgl. 6 Juni 1982.

Pelaksana Inventarisasi.

1. Counterpart MLP.

( Eddy Murjanto.P )

2. Expert ( Jica ).

( Yoshikazu Tsukide ).

Pelaksanaan Inventarisasi Peralatan Proyek M.L.P. Madium ( Perhutani )

Tempat di : Bumiaya

Tanggal : 24 Mei 1982.

No: 18

| No. | Jenis Barang. | Nomer Parts. | Satuan. | Banyaknya. Br. | Tp. | Jmh. | Jenis & Merk Mesin. | Keterangan. (ruang) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Sprocket Guard | 122213012 | Pc | 6 | - | 6 | Chain Saw | |
| 2 | Crank Case Clutch Side | 123111012 | " | 1 | - | 1 | Type 123 | |
| 3 | Tank Magnet Side | 122114100 | " | 1 | - | 1 | | |
| 4 | Tank Clutch Side | 122114111 | " | 1 | - | 1 | | |
| 5 | Tubeler handle | 128310012 | " | 1 | - | 1 | | |
| 6 | Fan Housing | 123112020 | " | 2 | - | 2 | | |
| 7 | Clutch Hub | 122182011 | " | 3 | - | 3 | | |
| 8 | Fuel line | 123173010 | " | 12 | - | 12 | | |
| 9 | Spark plug cap | 965604130 | | 7 | - | 7 | | |
| 10 | Suction Head | 963601120 | | 3 | - | 3 | | |
| 11 | Screw plug | 965451260 | | 2 | - | 2 | | |
| 12 | Starter grip | 965402261 | | 5 | - | 5 | | |
| 13 | Guide plate | 123111041 | | 3 | - | 3 | | |
| 14 | Rewind spring | 123163010 | | 2 | - | 2 | | |
| 15 | Starter rope | 122164010 | | 10 | - | 10 | | |
| 16 | Ball bearing | 960102171 | | 6 | - | 6 | | |
| 17 | Tension spring | 122184010 | | 6 | - | 6 | | |
| 18 | Suction line | 965451290 | | 3 | - | 3 | | |
| 19 | Suction line | 965402400 | | 1 | - | 1 | | |
| 20 | Screw | 901506604 | | 3 | - | 3 | | |
| 21 | Spring Washer | 926206000 | | 3 | - | 3 | | |
| 22 | Square Nut | 123213010 | | 3 | - | 3 | | |
| 23 | Dise | 924306400 | | 3 | - | 3 | | |
| 24 | Nut | 920206000 | | 3 | - | 3 | | |
| 25 | Guide Hose | 122182030 | | 6 | - | 6 | | |
| 26 | Oil Seal | 96290038 | | 1 | - | 1 | | |
| 27 | Radial Ring | 962900041 | | 1 | - | 1 | | |
| 28 | " " | 962900046 | | 1 | - | 1 | | |
| 29 | Oil Seal | 962900041 | | 1 | - | 1 | | |
| 30 | " " | 962900057 | | 1 | - | 1 | | |
| 31 | Spark plug | 965603010 | | 4 | - | 4 | | |
| 32 | Piston | 122132100 | | 1 | - | 1 | | |
| 33 | Screw Plug | 965451580 | | 2 | - | 2 | | |
| 34 | Starter Ratchet | 122166010 | | 7 | - | 7 | | |
| 35. | Spring | 122166020 | | 12 | - | 12 | | |

Bumiaya ..... tgl. 24 Mei 1982

Keterangan:

Br : Keadaan baru.

Tp : Terpakai.

Jmh : Jumlah.

Pelaksana inventarisasi.

1. Counterpart MLP. 2. Counterpart MLP 3. Expert ( Jica ).

( Eddy Purjanto ) ( ..... ) ( Yoshikazu Tsukida ).

Pelaksanaan Inventarisasi Peralatan Proyek M.L.P. Madiun ( Perhutani )

Tempat di : Bumijawa

Tanggal : 24 Mei 1982.

No: 19

| No. | Jenis Barang. | Nomer Parts. | Satuan. | Banyaknya. Br. | Tp. | Jmh. | Jenis & Merk Mesin. | Keterangan. (ruang) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Rubber cap | 965605131 | Po | 3 | - | 3 | CHAIN | |
| 2 | Spring | 119117040 | " | 3 | - | 3 | SAW | |
| 3 | " | 122151290 | " | 5 | - | 5 | TYPE 123 | |
| 4 | " | 144151310 | " | 5 | - | 5 | | |
| 5 | Lineage | 122117054 | " | 3 | - | 3 | | |
| 6 | Protection cap | 965402150 | " | 3 | - | 3 | | |
| 7 | Key | 939630370 | " | 2 | - | 2 | | |
| 8 | Oil pump assy | 123254310 | " | 3 | - | 3 | | |
| 9 | Piliter Screw | 122118170 | " | 10 | - | 10 | | |
| 10 | Safety Disc | 927304000 | " | 5 | - | 5 | | |
| 11 | Nedle bearing | 962210006 | " | 11 | - | 11 | | |
| 12 | Screw | 912305252 | " | 3 | - | 3 | | |
| 13 | Nedle bearing | 962210015 | " | 1 | - | 1 | | |
| 14 | Screw | 990005165 | " | 20 | - | 20 | | |
| 15 | Clutch Shoe | 122181010 | " | 5 | - | 5 | | |
| 16 | Screw | 905186124 | " | 5 | - | 5 | | |
| 17 | " | 122118170 | " | 3 | - | 3 | | |
| 18 | " | 990005124 | | 3 | - | 3 | | |
| 19 | " | 900005405 | | 20 | - | 20 | | |
| 20 | Nut | 923210002 | | 5 | - | 5 | | |
| 21 | Strengthing Place | 144310070 | | 1 | - | 1 | | |
| 22 | -"- -"- | 122310051 | | 1 | - | 1 | | |
| 23 | Control Diafrum | 113150110 | | 5 | - | 5 | | |
| 24 | Pump Gasket | 113150270 | | 5 | - | 5 | | |
| 25 | Pump Diafrum | 113150150 | | 5 | - | 5 | | |
| 26 | Diafrum cover | 122151121 | | 5 | - | 5 | | |
| 27 | Bush | 122162050 | | 5 | - | 5 | | |
| 28 | Diafrum gasket | 113150340 | | 5 | - | 5 | | |
| 29 | Stopper | 965451490 | | 5 | - | 5 | | |
| 30 | Packing Ring | 963224035 | | 2 | - | 2 | | |
| 31 | -"- -"- | 963232040 | | 2 | - | 2 | | |
| 32 | Inlet Needle lever | 113150190 | | 5 | - | 5 | | |
| 33 | Snap Ring | 929314100 | | 5 | - | 5 | | |
| 34 | Safety Disc | 927304000 | | 2 | - | 2 | | |
| 35. | Gasket | 965518070 | | 1 | - | 1 | | |
| 36 | Clutch Drum 404 | 133223091 | | 3 | - | 3 | | |

Keterangan:

Br : Keadaan baru.

Tp : Terpakai.

Jmh : Jumlah.

Bumijawa 24 Mei 1982

Pelaksana inventarisasi.

1. Counterpart MLP. 2. Counterpart MLP 3. Expert ( Jica ).

( Eddy Nurjanto ) ( ) ( Yoshikazu Tsukida ).

Pelaksanaan Inventarisasi Peralatan Proyek M.L.P. Madiun ( Perhutani ) Jawa

Tempat di : Bumijawa

Tanggal : 24 Mei 1982.

No: 20

| No. | Jenis Barang. | Nomer Parts. | Satuan. | Banyaknya. Br. | Tp. | Jmh. | Jenis & Mork Mesin. | Keterangan. (ruang) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Gasket | 965518080 | Po | 1 | - | 1 | Chain | |
| 2 | " | 965518011 | " | 1 | - | 1 | Saw Type | |
| 3 | Cylinder gasket | 965521020 | " | 1 | - | 1 | 123 | |
| 4 | Gasket | 965518011 | " | 1 | - | 1 | | |
| 5 | Crankcase Magneto side | 123111021 | " | 2 | - | 2 | | |
| 6 | " Clutch side | 123111013 | " | 1 | - | 1 | | |
| 7 | Cylinder assy | 123130000 | " | 1 | - | 1 | | |
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Bumijawa 24 Mei

.....tgl.....1982

Keterangan:

Br : Keadaan baru.

Tp : Terpakai.

Jmh : Jumlah.

Pelaksana inventarisasi.

1. Counterpart MLP. 2. Counterpart MLP 3. Expert ( Jica ).

( Eddy Marjanto ) ( ..... ) ( Yoshikazu Tsukida ).

Pelaksanaan Inventarisasi Peralatan Proyek M.L.P. Madiun ( Perhutani )

Tempat di : Pusdik Kehutanan Madiun

Tanggal : 10 s/d 24 April 1982. No: 21

| No. | Jenis Barang. | Nomer Parts. | Satuan. | Banyaknya. Br. | Tp. | Jmh. | Jenis & Merk Mesin. | Keterangan. (ruang) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Air Filter | 133173010 | bh | 12 | - | 12 | CHAN SAW | B. 5 |
| 2 | Fuel Filter | 007111060 | " | 10 | - | 10 | MODEL | |
| 3 | Fuel Suction line | 965402400 | " | 5 | - | 5 | 133 | Barang diterima di Madiun tgl. 8, 21, 22/4-'82. |
| 4 | Air Valve | 965451190 | " | 3 | - | 3 | | |
| 5 | Fuel hose | 965457250 | " | 1 M | - | 1 M | | |
| 6 | Oil Pick Up | 965451890 | " | 1 | - | 1 | | |
| 7 | Fuel tank cap | 965451260 | " | 5 | - | 5 | | |
| 8 | O - R i n g | 963232040 | " | 5 | - | 5 | | |
| 9 | Oil tank cap | 965451380 | " | 5 | - | 5 | | |
| 10 | O - R i n g | 963224035 | " | 5 | - | 5 | | |
| 11 | Oil Pump Copl | 123245310 | " | 1 | - | 1 | | |
| 12 | Clutch Drum | 113223091 | " | 1 | - | 1 | | |
| 13 | Inner Guide Plate | 123111031 | " | 2 | - | 2 | | |
| 14 | Outer Guide Plate | 123111041 | " | 2 | - | 2 | | |
| 15 | Safety Plate | 965451430 | " | 5 | - | 5 | | |
| 16 | Sprokit guard | 122213012 | " | 1 | - | 1 | | |
| 17 | N u t | 923210002 | " | 10 | - | 10 | | |
| 18 | Spike bolt | 133250020 | " | 2 | - | 2 | | |
| 19 | do | 133250010 | " | 2 | - | 2 | | |
| 20 | Spark plug | 965603010 | " | 10 | - | 10 | | |
| 21 | Spark plug cap | 965604130 | " | 4 | - | 4 | | |
| 22 | Cylinder piston copl | 133130000 | " | 1 | - | 1 | | |
| 23 | Intake port gasket | 965518070 | " | 2 | - | 2 | | |
| 24 | Piston complete | 133132000 | " | 1 | - | 1 | | |
| 25 | Cylinder Base Gasket | 965521021 | " | 2 | - | 2 | | |
| 26 | Carburator gasket | 965518030 | " | 5 | - | 5 | | |
| 27 | Muffler Gasket | 965518051 | " | 2 | - | 2 | | |
| 28 | Muffler | 133174000 | " | 1 | - | 1 | | |
| 29 | Magnet plate | 144142100 | " | 1 | - | 1 | | |
| 30 | Ratchet spring | 122166010 | " | 9 | - | 9 | | |
| 31 | Ratchet | 122166010 | " | 10 | - | 10 | | |
| 32 | R i n g | 927304000 | " | 10 | - | 10 | | |
| 33 | R e c o i l Spring | 123163010 | " | 4 | - | 4 | | |
| 34 | Stater rope | 122164010 | " | 5 | - | 5 | | |
| 35. | Diaphragm | 113150340 | " | 5 | - | 5 | | |

Keterangan:

Br : Keadaan baru.

Tp : Terpakai.

Jmh : Jumlah.

Madiun tgl. 25 April 1982

Pelaksana inventarisasi.

1. Counterpart MLP. 2. Counterpart MLP 3. Expert ( Jica ).

( Eddy Murjanto ) ( ) ( Yoshikazu Tsukida ).

Pelaksanaan Inventarisasi Peralatan Proyek M.L.P. Madiun ( Perhutani )

Tempat di : Pusdik Kehutanan Madiun

Tanggal : 10 s/d 24 April 1982.

No: 22

| No. | Jenis Barang. | Nomer Parts. | Satuan. | Banyaknya. Br. | Tp. | Jmh. | Jenis & Merk Mesin. | Keterangan. (ruang) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Control diaphragm | 113150110 | bh | 5 | - | 5 | CHAIN | E. 5 |
| 2 | Pump gasket | 113150270 | " | 5 | - | 5 | Saw | |
| 3 | Pump diaphragm | 113150150 | " | 5 | - | 5 | MODEL 133 | Barang diterima |
| 4 | Spring | 122150290 | " | 5 | - | 5 | | di Madiun |
| 5 | Control lever | 113150280 | " | 5 | - | 5 | | tgl.8,21,22/4-'82. |
| 6 | Inlet needle | 113150190 | " | 5 | - | 5 | | |
| 7 | Screw | 991106125 | " | 10 | - | 10 | | |
| 8 | -"- | 912305252 | " | 10 | - | 10 | | |
| 9 | -"- | 990005405 | " | 10 | - | 10 | | |
| 10 | -"- | 990005254 | " | 5 | - | 5 | | |
| 11 | Screw | 994006654 | " | 5 | - | 5 | | |
| 12 | -"- | 991106205 | " | 10 | - | 10 | | |
| 13 | -"- | 909106164 | " | 9 | - | 9 | | |
| 14 | Nut | 922606000 | " | 9 | - | 9 | | |
| 15 | Square nut | 123213010 | " | 10 | - | 10 | | |
| 16 | Nut | 920206000 | " | 10 | - | 10 | | |
| 17 | Spring washer | 926206000 | " | 10 | - | 10 | | |
| 18 | -"- | 924306400 | " | 10 | - | 10 | | |
| 19 | Rubber buffer | 965403131 | " | 5 | - | 5 | | |
| 20 | Guide bar | 411312400 | " | 2 | - | 2 | | |
| 21 | Saw Chain | 523099080 | " | 5 | - | 5 | | |
| 22 | Round file | 953003040 | dus | 2 | - | 2 | | |
| 23 | Flat file | 953003060 | dus | 1 | - | 1 | | |
| 24 | Tie strap (rivet) | 558103010 | bh | 10 | - | 10 | | |
| 25 | Tie strap | 558103000 | " | 7 | - | 7 | | |
| 26 | Allenkey 6 mm | 940905200 | " | 1 | - | 1 | | |
| 27 | -"- 5 mm | 940904200 | " | 1 | - | 1 | | |
| 28 | Combination wrench | 17 mm x 19 mm | " | 5 | - | 5 | | |
| 29 | Worm puller | 957433000 | " | 1 | - | 1 | | |
| 30 | Clutch puller | 957432000 | " | 1 | - | 1 | | |
| 31 | Fly wheel puller | 957427000 | " | 1 | - | 1 | | |
| 32 | Rubber buffer puller | 944300600 | " | 1 | - | 1 | | |
| 33 | Piston stop needle | 944602000 | " | 1 | - | 1 | | |
| 34 | Handle | 953004010 | " | 10 | - | 10 | | |
| 35. | Guide bar sweeper | 953100071 | " | 5 | - | 5 | | |

Keterangan:

Br : Keadaan baru.

Tp : Terpakai.

Jmh : Jumlah.

Madiun tgl. 25 April 1982

Pelaksana inventarisasi.

1. Counterpart MLP. 2. Counterpart MLP 3. Expert ( Jica ).

( Edy Nurjanto ) ( ..... ) ( Toshikazu Tsukida ).

Pelaksanaan Inventarisasi Peralatan Proyek M.L.P. Madiun ( Perhutani )

Tempat di : Pusdik Kehutanan Madiun

Tanggal : 10 s/d 24 April 1982.

No: 23

| No. | Jenis Barang. | Nomer Parts. | Satuan. | Banyaknya. Br. | Tp. | Jmh. | Jenis & Merk Mesin. | Keterangan. (ruang) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Saw Chain Reel 133 | - | rool | 5 | - | 5 | Spare | |
| 2 | Guide bar | | bh | 10 | - | 10 | Part | |
| 3 | Saw Chain tie strap | | " | 200 | - | 200 | Chain | |
| 4 | Chain Saw Breaker | | " | 5 | - | 5 | Saw 133 | |
| 5 | " " Special Tool | | " | 5 | - | 5 | | |
| 6 | " " General Tool | | " | 5 | - | 5 | | |
| 7 | " " Sharpening File round | | " | 50 | - | 50 | | |
| 8 | " " " " plat | | " | 20 | - | 20 | | |
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Madiun ..... tgl. 25 April 1982

Keterangan:

Br : Keadaan baru.

Tp : Terpakai.

Jmh : Jumlah.

Pelaksana inventarisasi.

1. Counterpart MLP. 2. Counterpart MLP 3. Expert ( Jica ).

( Eddy Harjanto ) ( ..... ) ( Toshikuni Tsujita )