

BAB V

KESIMPULAN DAN SARAN

5.1 KESIMPULAN

Kesimpulan yang dihasilkan dari kegiatan Internal Audit Sistem Mutu ISO 9002 di P.T. HONORIS INDUSTRY Divisi KAMERA , didapat dari analisa kesesuaian dan ketidaksesuaian dalam penerapan ISO 9002 dengan persyaratan yang ditentukan. Dengan demikian dapat diharapkan adanya masukan-masukan untuk meningkatkan kemampuan proses untuk memenuhi sasaran mutu yang juga telah ditentukan. Adapun kesimpulan yang dapat diambil dalam analisis ini adalah:

1. Dalam Internal Audit yang dilakukan pada beberapa prosedur tentang kesesuaian atau ketidaksesuaian aktualisasinya maka tidak ditemukan ketidaksesuaian dalam memenuhi persyaratan yang didokumenkan.

Prosedur tersebut adalah :

1.1. Sales (penjualan):

- Prosedur manajemen proyek baru
- Prosedur peluncuran proyek baru

1.2. Purchasing (pembelian) :

- Praktek pembelian
- Jaminan mutu penjual

1.3. Engineering (teknik) :

- Kalibrasi peralatan

1.4. Produksi - plastik :

- Plastik proses control
- Plastic In-Process Inspection

1.5. Produksi - elektronik :

- Pengontrolan proses elektronik
- Line In-Process Inspection Electronics

1.6. Produksi - lensa :

- Pengendalian proses lensa
- Line In-Process Inspection Lens

1.7. Produksi - kamera :

- Camera Sub-assembly/Assembly Process control

1.8. Pengepakan (packing) :

- Proses pengawasan pengepakan
- Pengemasan produk
- Prosedur pengiriman

1.9. Gudang (warehouse) :

- Penerimaan material (material receiving)

1.10. Pengendalian mutu (QC) :

- Inspeksi dan tes Status
- Control nonconformance (pengendalian ketidaksesuaian)
- Corrective action procedure (tindakan koreksi)

1.11. Training (pelatihan)

Hasil pantauan auditor terhadap semua persyaratan dalam prosedur dilaksanakan dengan benar. Tidak terdapat tanda-tanda ketidaksesuaian major ataupun minor.

2. Dari hasil evaluasi terhadap pencapaian nilai acceptance ratio sebagai sasaran mutu yang telah ditetapkan didapat bahwa selama periode 21 april 1995 sampai dengan 20 april 1996 (12 bulan), terdapat nilai acceptance ratio sebanyak 58,33% mencapai atau melampaui nilai acceptance ratio yang ditetapkan dan sebanyak 41,67% tidak mencapai nilai yang ditetapkan tersebut.
3. Dari perhitungan didapat nilai acceptance baru sebesar 96,28% dengan peningkatan 1,28% dari nilai acceptance ratio lama sebesar 95%. Dengan demikian terlihat bahwa adanya peningkatan kemampuan proses untuk memenuhi sasaran mutu yang ditetapkan.
4. Dokumentasi yang ketat, meski merepotkan karyawan, ternyata amat menguntungkan bagi perusahaan. Begitu ada ketidaksesuaian di pabrik misalnya, mudah sekali mendeteksinya pada bagian mana kesalahan itu berasal.
5. Dari pengumpulan informasi faktual tentang pelaksanaan sistem ISO 9002 di rantai operasional dalam keseharian operasi ditemukan bahwa :
 - b) Dampak dari diberlakukannya satu keharusan untuk pemantauan berdasarkan pengisian sejumlah dokumen/catatan sehubungan dengan mutu, operator merasa sangat kewalahan dan kerepotan. Hal ini menimbulkan munculnya kebiasaan untuk menumpuk tugas yang seharusnya tidak diperbolehkan.

- c) Kebiasaan untuk mengadakan pertemuan-pertemuan (meeting) rutin atau mendadak untuk membicarakan penerapan sistem mutu membuat personil merasa bosan, enggan dan merasa terpaksa untuk mengikutinya.
- d) Pelatihan yang tidak efektif tidak menghasilkan sesuatu yang mengembangkan pengetahuan personil terutama operator karena banyak segi "mengapa"-nya dari peraturan-peraturan untuk pemenuhan mutu tidak dipahami oleh operator padahal hal tersebut adalah fatal.

Dari hasil penilaian secara keseluruhan yang dilakukan penulis terhadap penerapan ISO 9002 pada divisi kamera PT. Honoris Industry, untuk kesesuaian elemen-elemen sistem mutu dengan persyaratan yang ditentukan dan pencapaian nilai acceptance ratio ternyata dapat dipenuhi dengan baik akan tetapi bukannya tanpa masalah sama sekali. Manajemen tampak lebih mementingkan kemajuan pada terlaksananya prosedur tanpa memperhatikan pelaksanaan itu sendiri oleh personil-personil yang terlibat.

Beberapa aspek mental psikologis dan rincian-rincian kecil pelaksanaannya kelihatan masih luput dari perhatian manajemen. Hal seperti ini membuat jalannya sistem ISO 9002 di PT. Honoris Industry divisi kamera belum seimbang benar dan bisa berpotensi kearah kurang berhasil untuk menciptakan suatu proses penerapan ISO 9002 yang terpadu untuk mewujudkan tujuannya dalam jangka panjang.

5.2 SARAN

Mengingat penerapan ISO 9002 yang mensyaratkan adanya komitmen, keterlibatan dan kepemimpinan Manajemen Puncak serta dukungan dan kemauan untuk menerima perubahan dari seluruh anggota organisasi, serta hasilnya baru akan diterima dalam jangka panjang, maka penulis merasa perlu untuk menyampaikan saran-saran berikut ini :

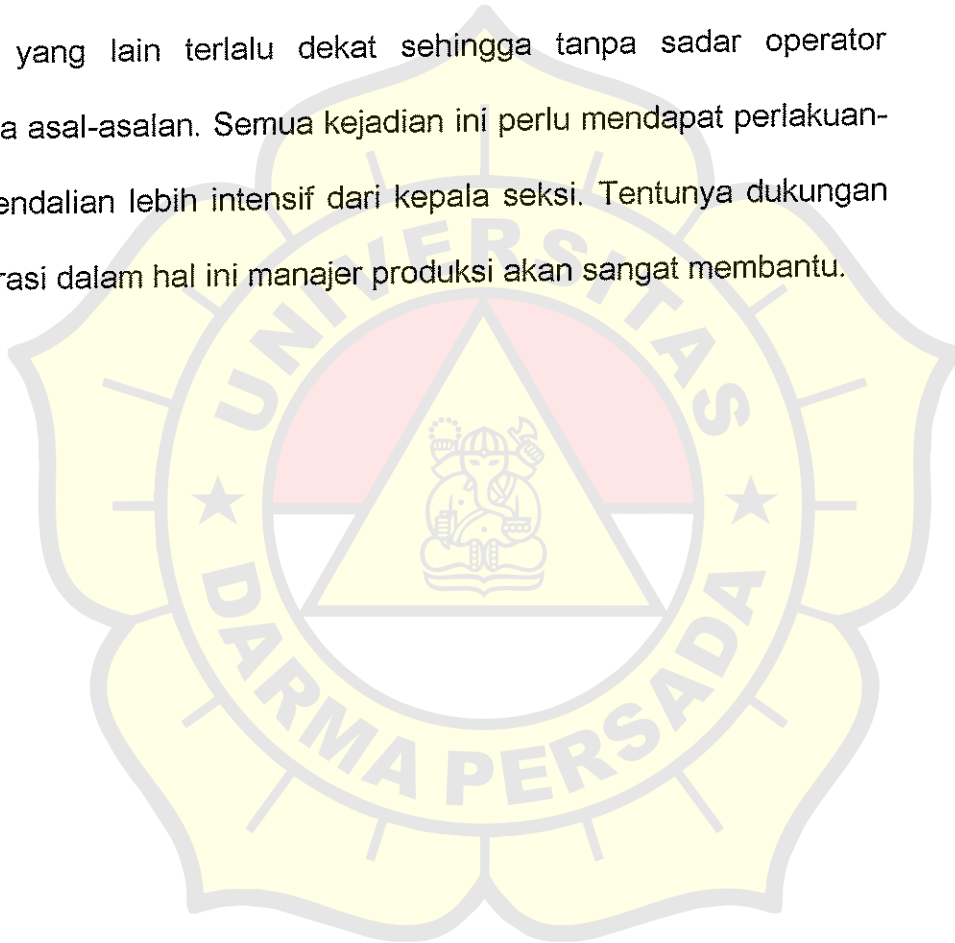
- Pihak Manajemen P.T. Honoris Industry perlu lebih memberikan komitmen dan melibatkan diri serta memimpin penerapan ISO 9002 ini secara konsisten dan berkesinambungan.
- Seluruh anggota perusahaan ini beserta organisasi strukturalnya mendukung dan aktif melibatkan diri dalam menerapkan ISO 9002 dengan menumbuhkan kemauan untuk belajar memahami sistem yang masih relatif baru ini dan melakukan perbaikan ditempat kerja secara berkesinambungan untuk peningkatan mutu serta mempersiapkan diri untuk menerima perubahan yang mungkin dihasilkan dari dinamika sistem ini.

Yang dimaksudkan dengan mendukung adalah melaksanakan tugas sesuai prosedur yang tertulis serta rasa tanggungjawab yang tinggi berlandaskan komitmen pada perusahaan.

- Pihak manajemen perusahaan disarankan agar lebih meningkatkan peran pelatihan agar hasilnya dapat terealisasi. Sejauh yang dilihat penulis, pelatihan yang ada kurang mendukung operator dalam melaksanakan tugasnya karena teknik pelatihan lebih bersifat umum. Menurut penulis

pelatihan harus juga memiliki sifat-sifat khusus serta dapat menumbuhkan pengertian atas mengapa regulasi-regulasi harus dijalankan dengan demikian dapat diharapkan orang-orang yang terlibat dapat bekerja lebih termotivasi, lebih alamiah dan tidak seperti terpaksa.

- Hasil pantauan penulis tentang tingkat kesalahan yang terjadi itu berlangsung/timbul pada saat operator mencapai titik ketidakstabilan psikologis antara lain mengantuk atau tekanan perasaan pada saat jarak satu produk dengan yang lain terlalu dekat sehingga tanpa sadar operator terdorong bekerja asal-asalan. Semua kejadian ini perlu mendapat perlakuan-perlakuan pengendalian lebih intensif dari kepala seksi. Tentunya dukungan manajemen operasi dalam hal ini manajer produksi akan sangat membantu.



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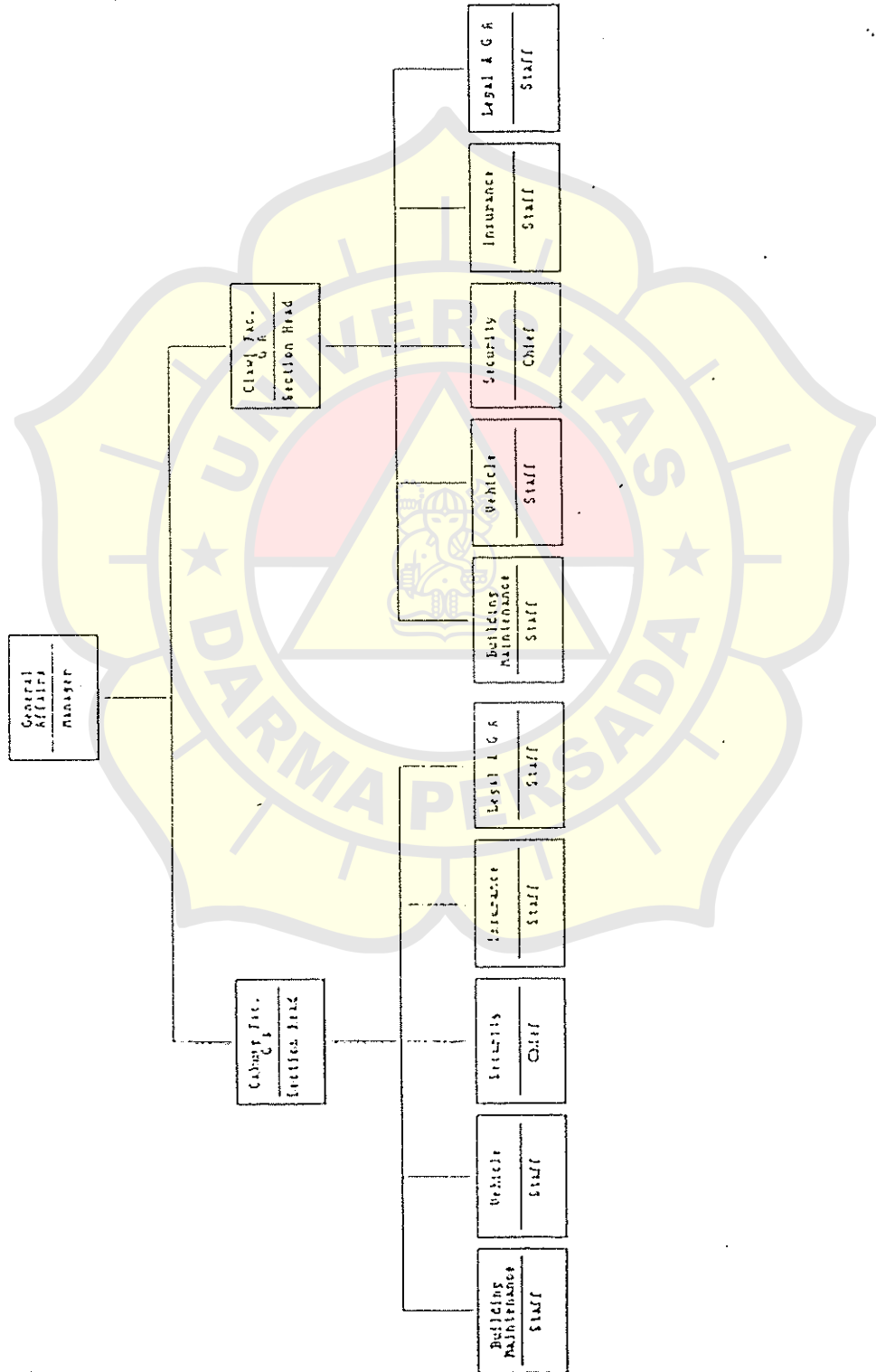
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DALAM MELAKSANAKAN ISO 9002

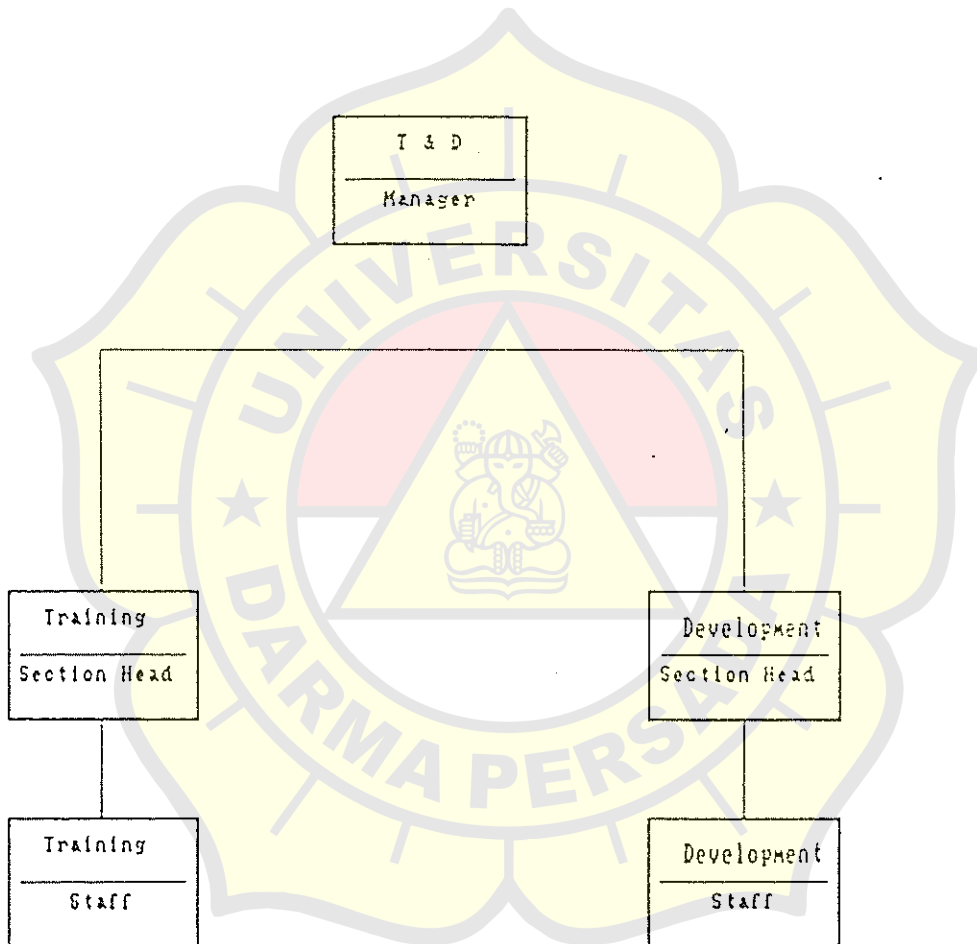
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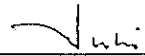


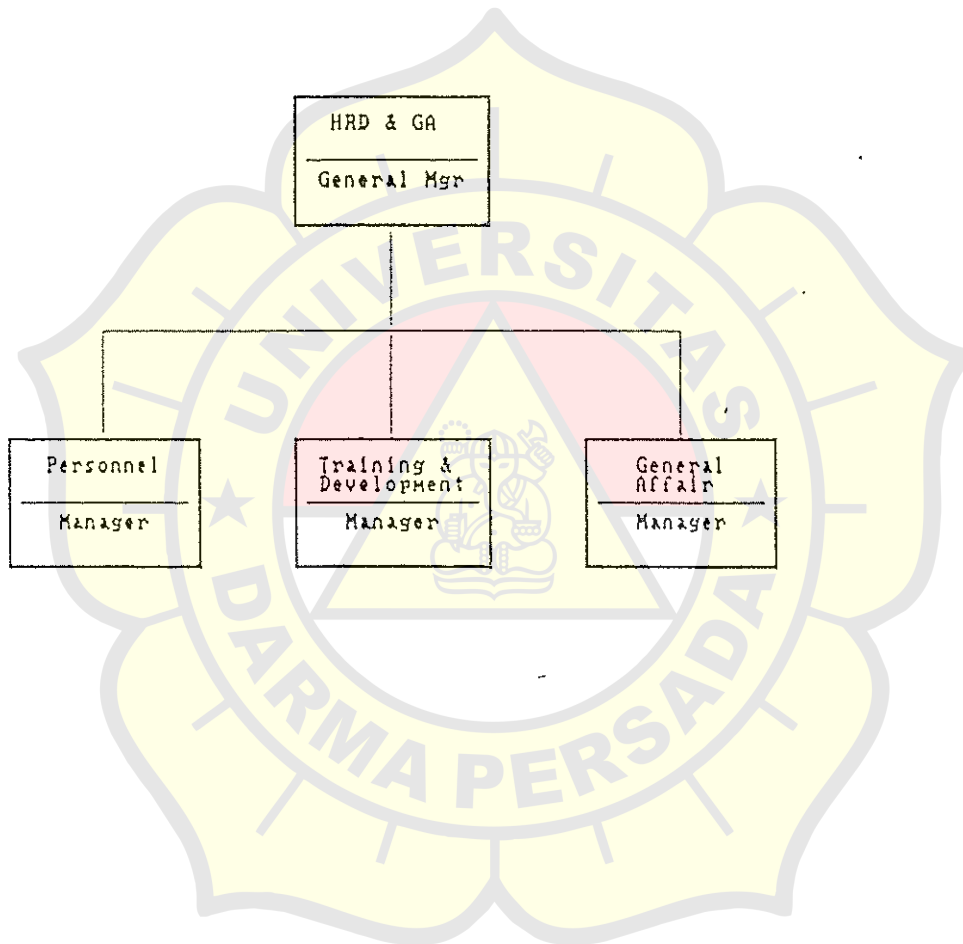
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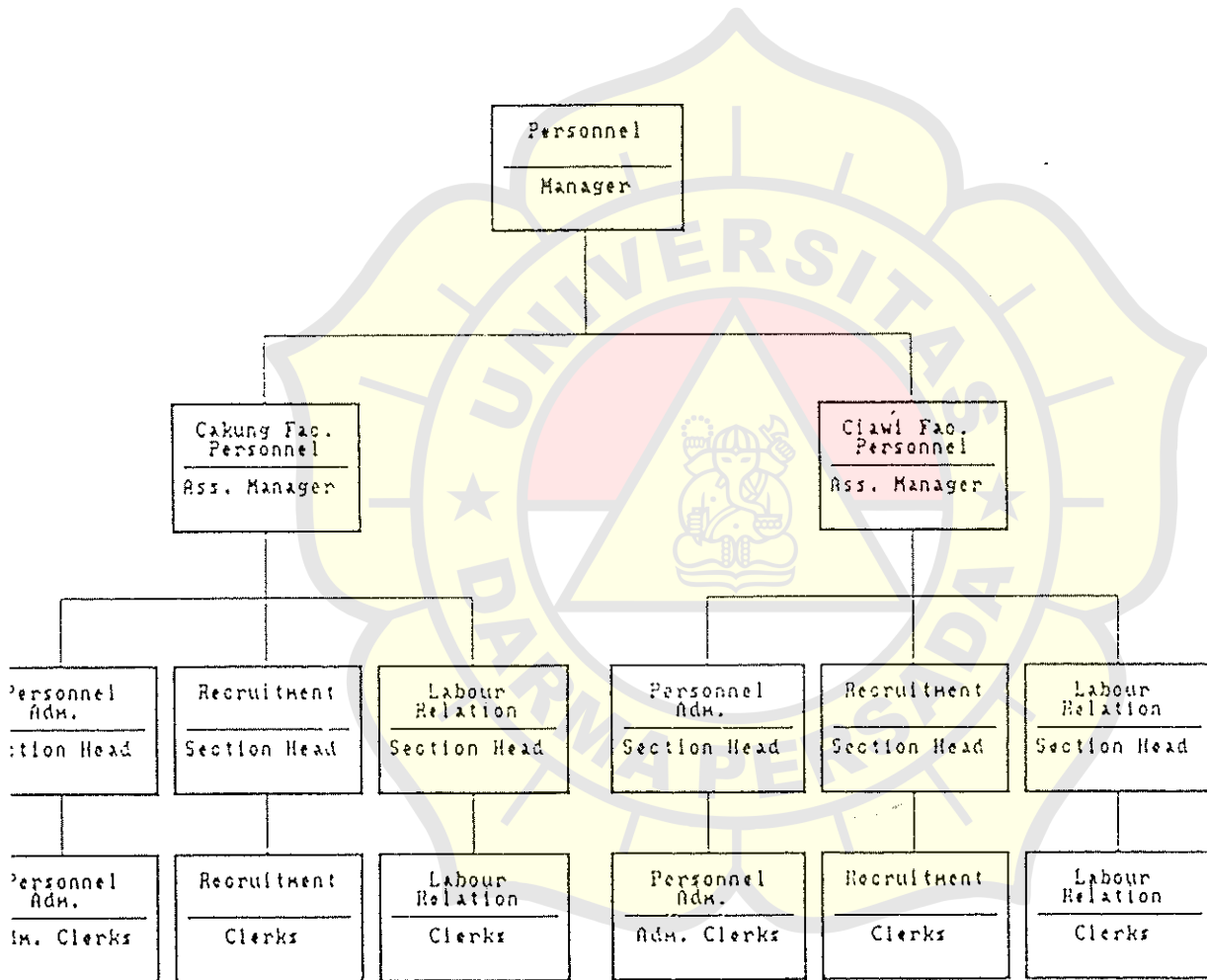
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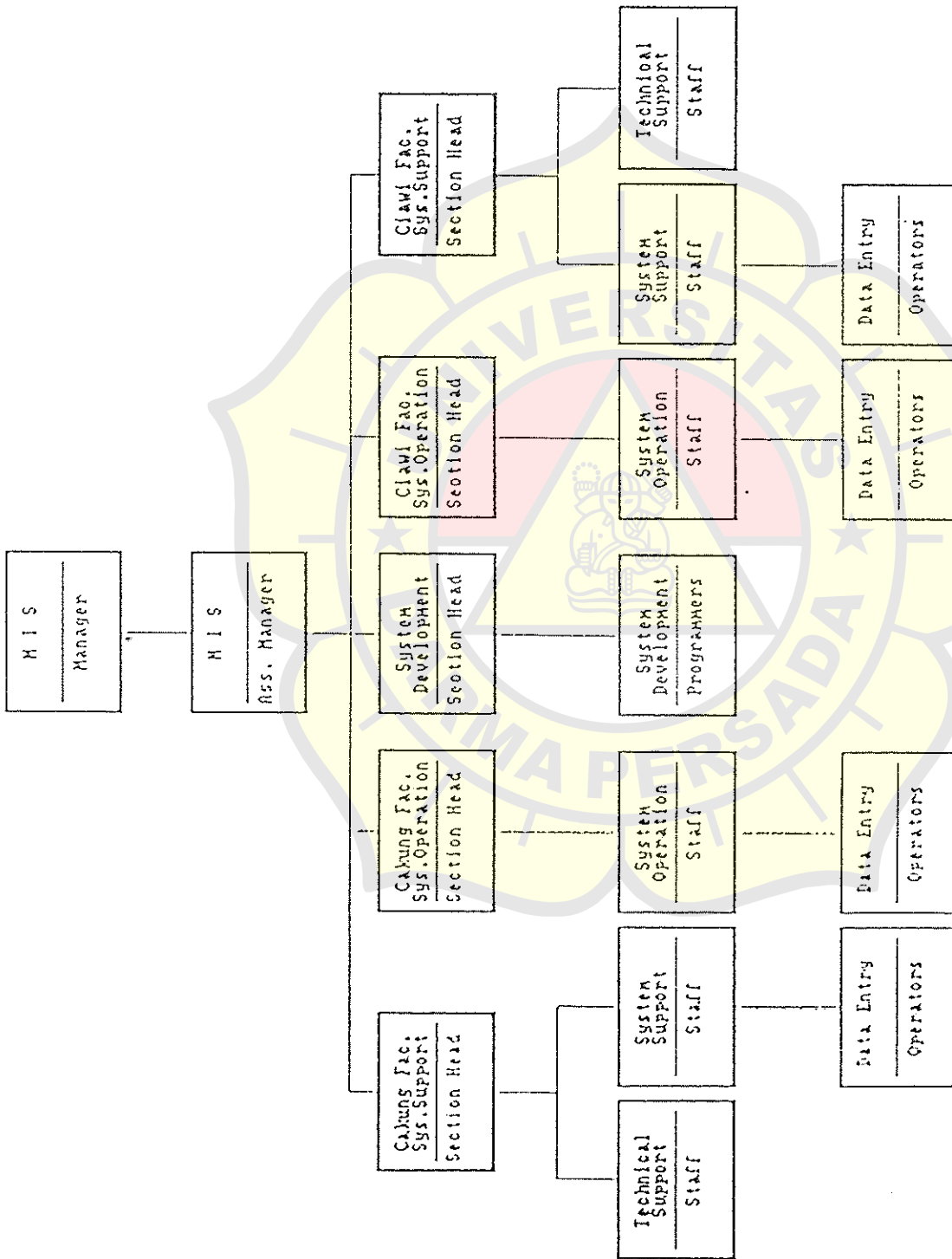
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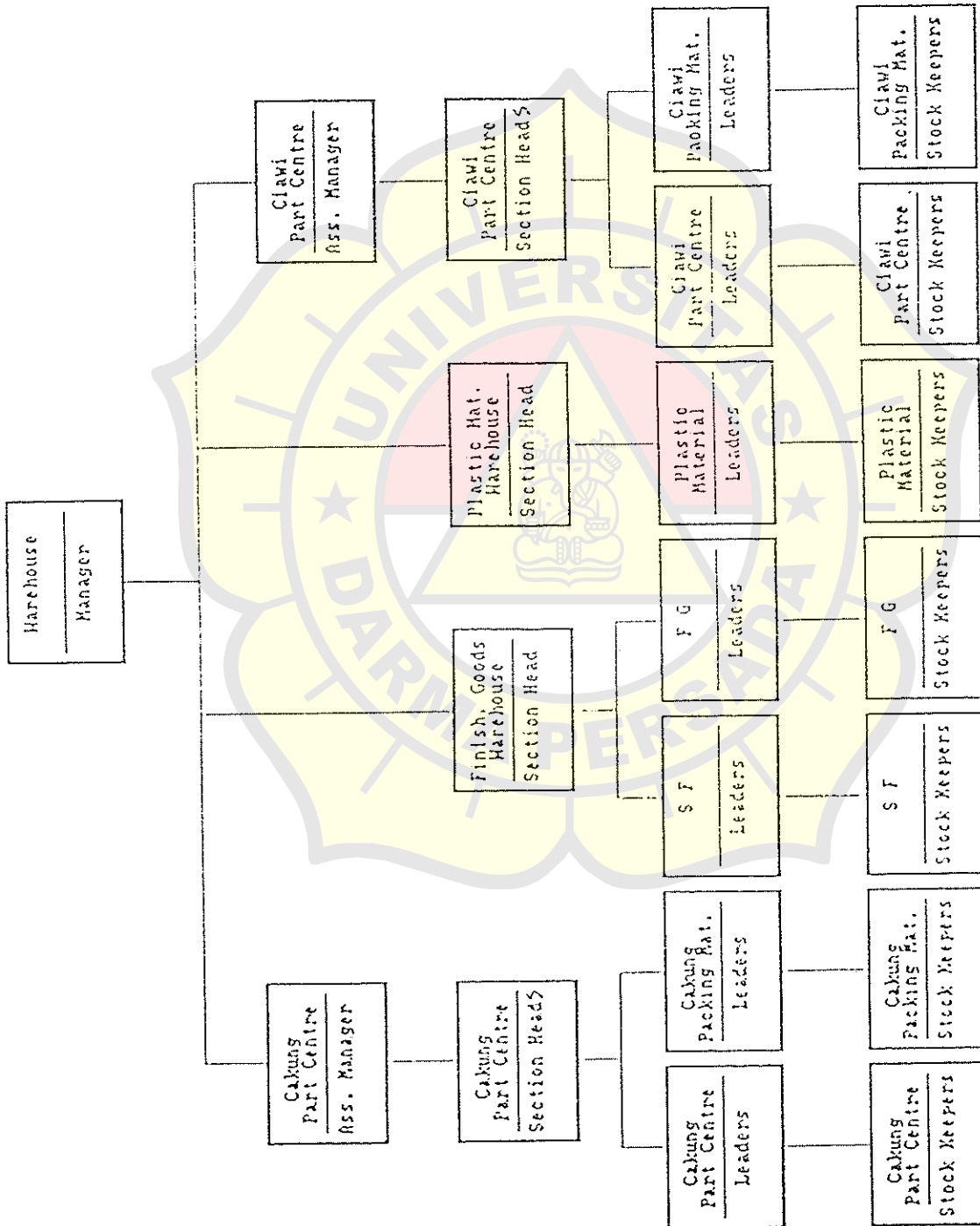
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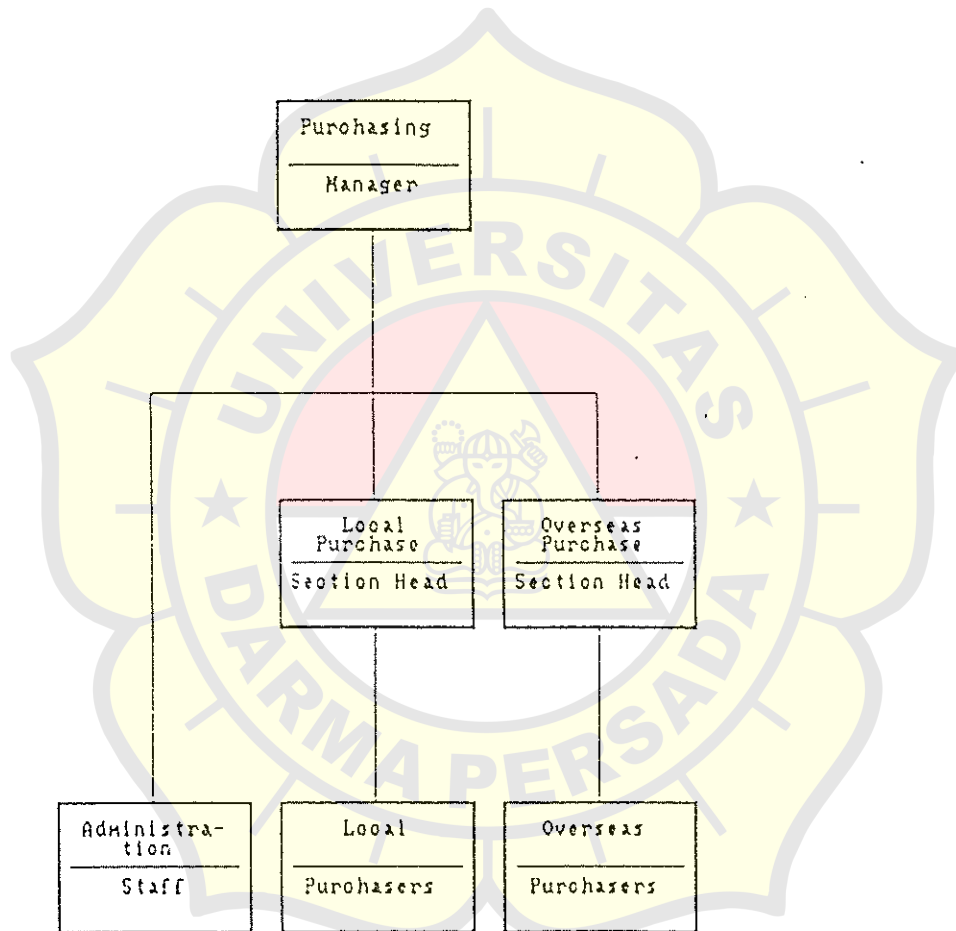
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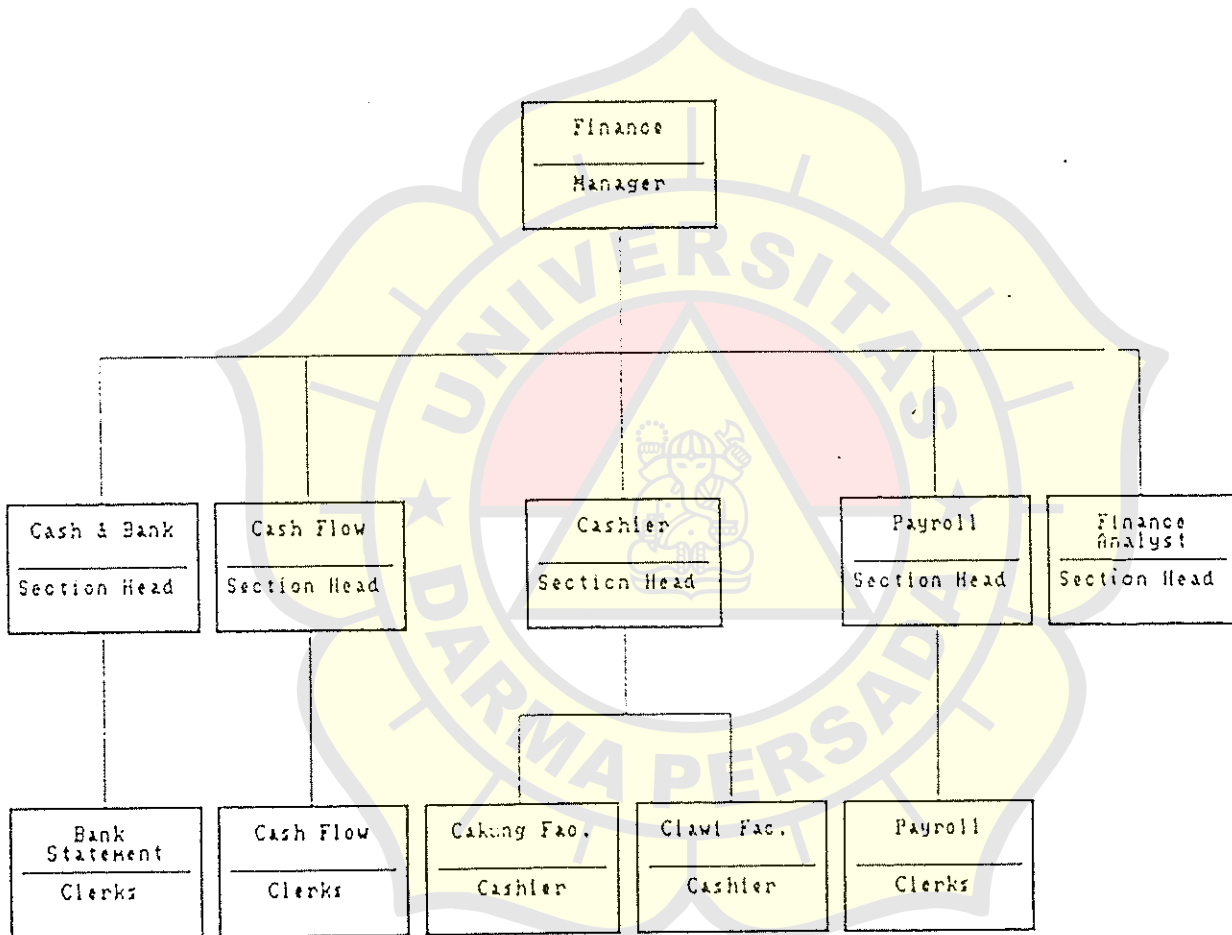
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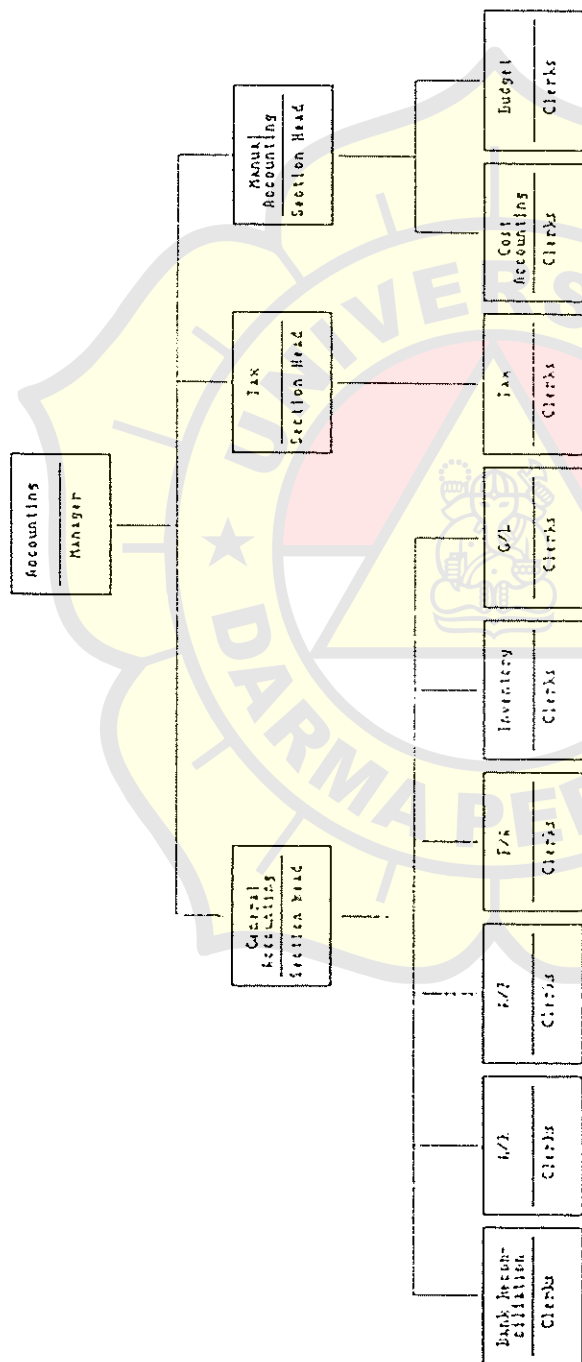
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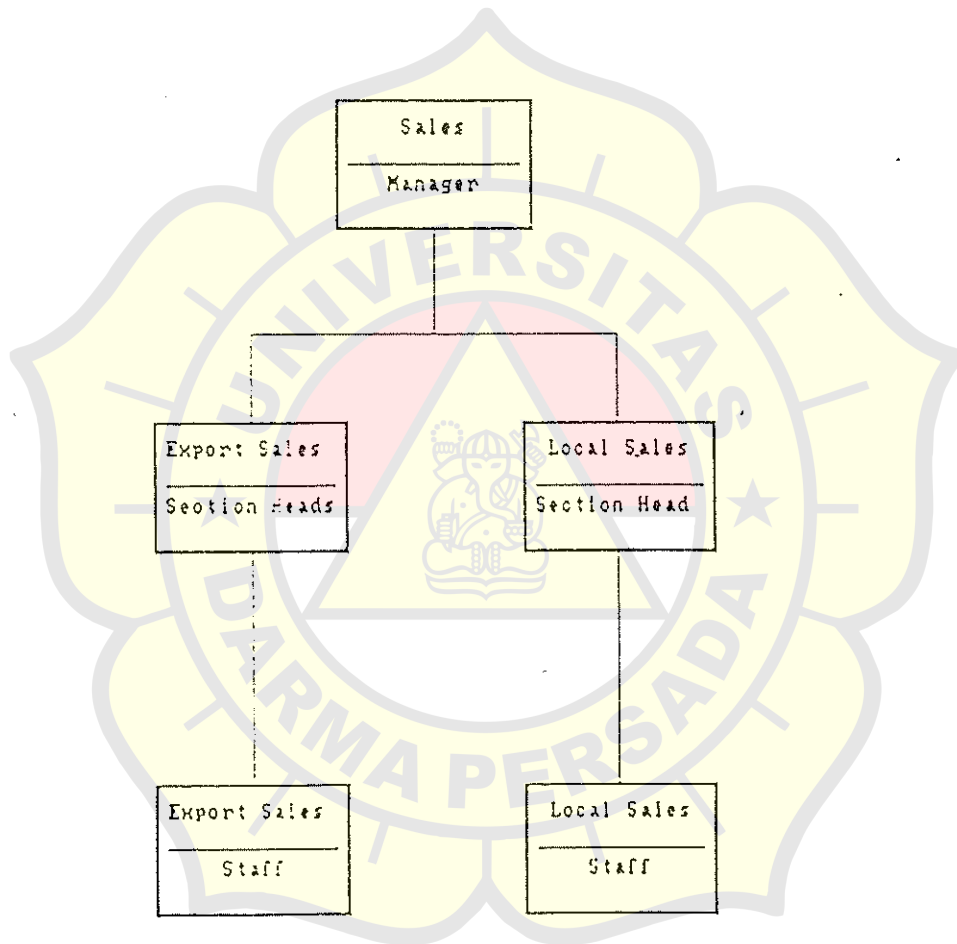
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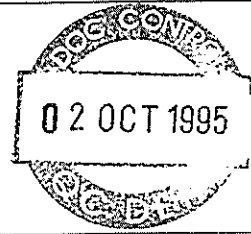


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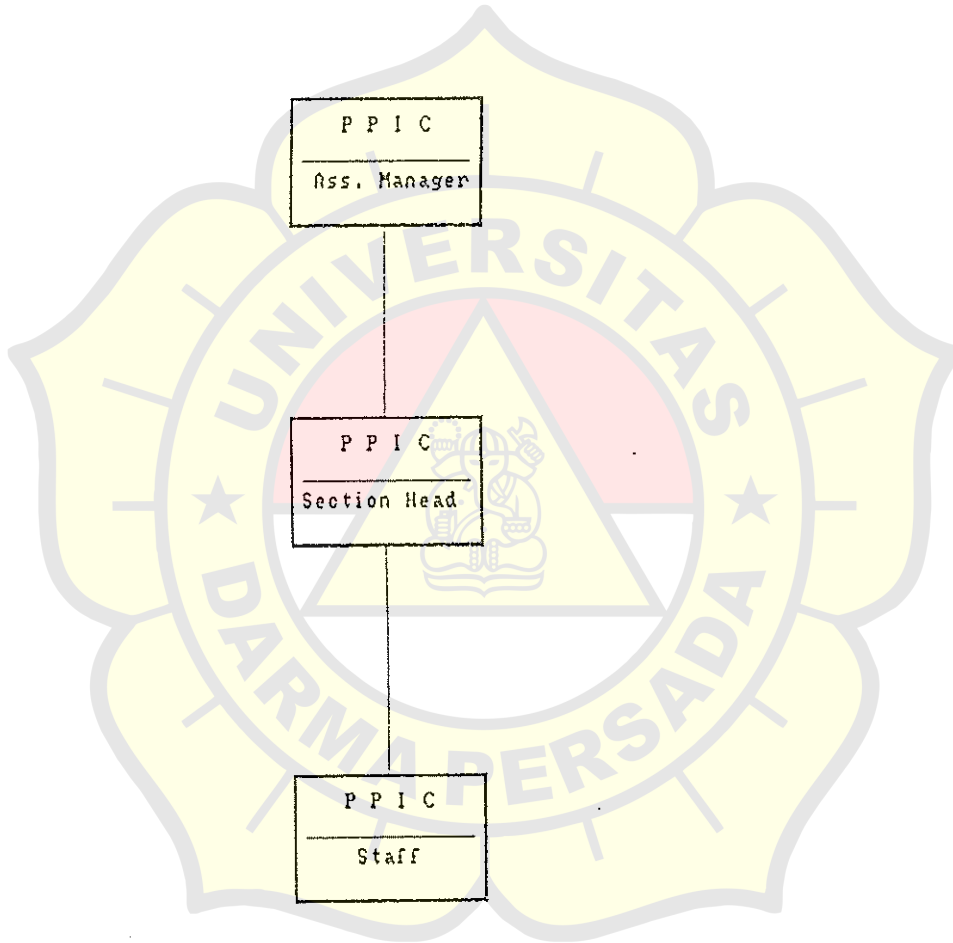
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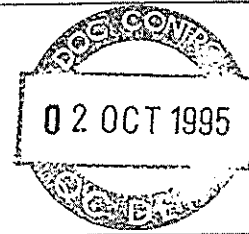
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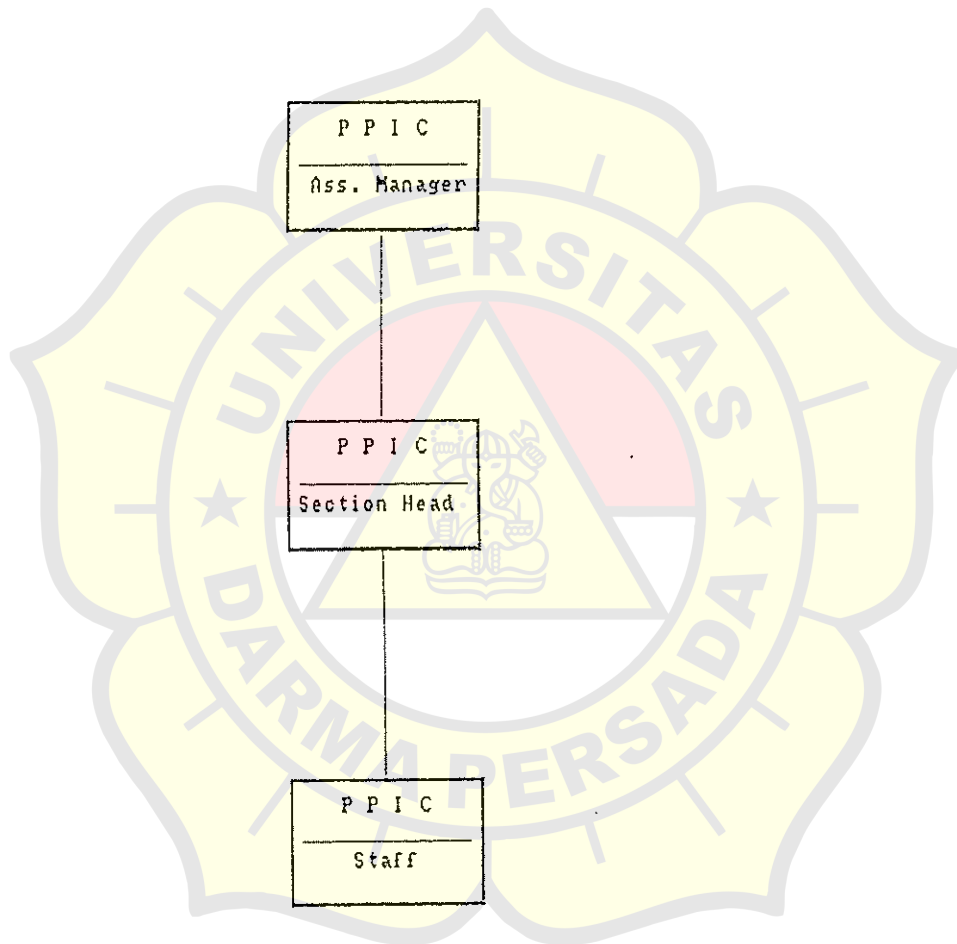
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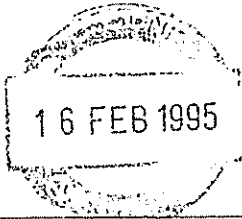
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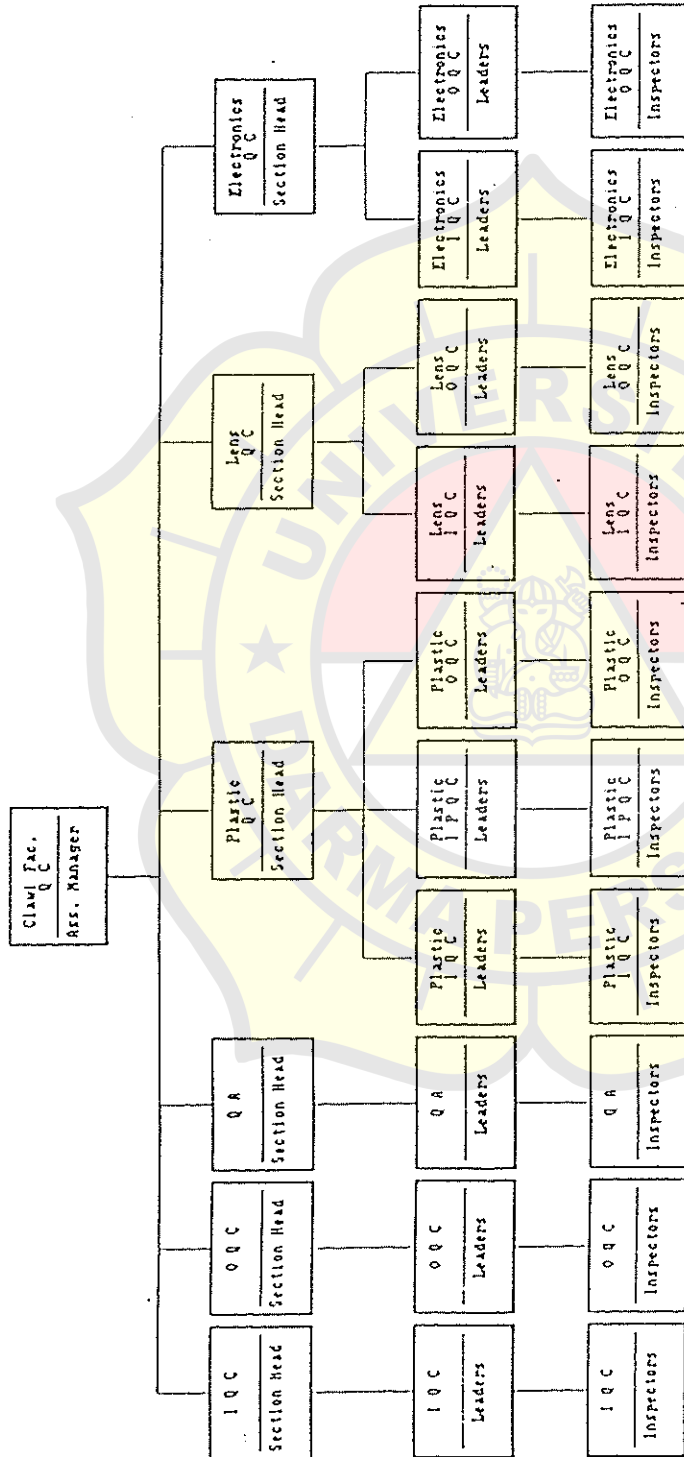
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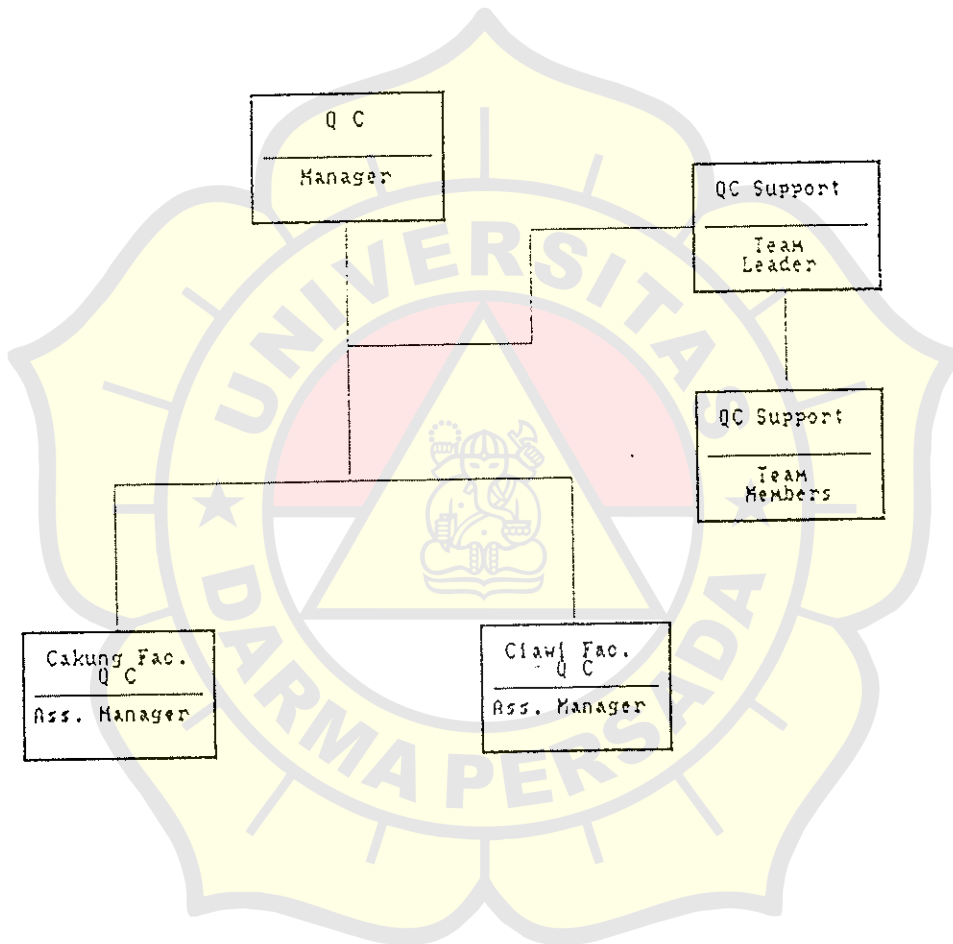


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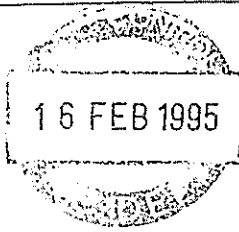


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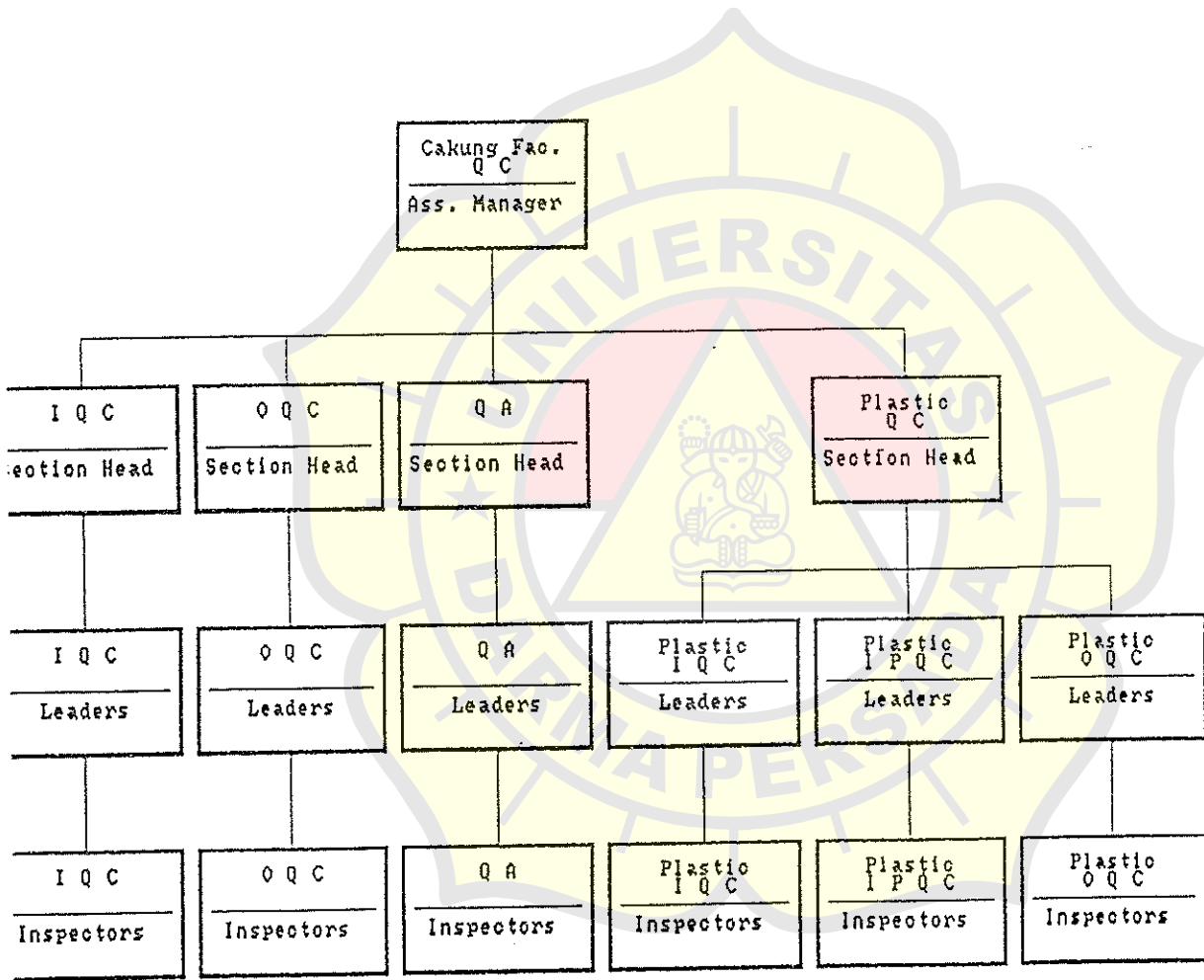
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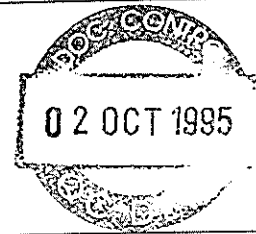
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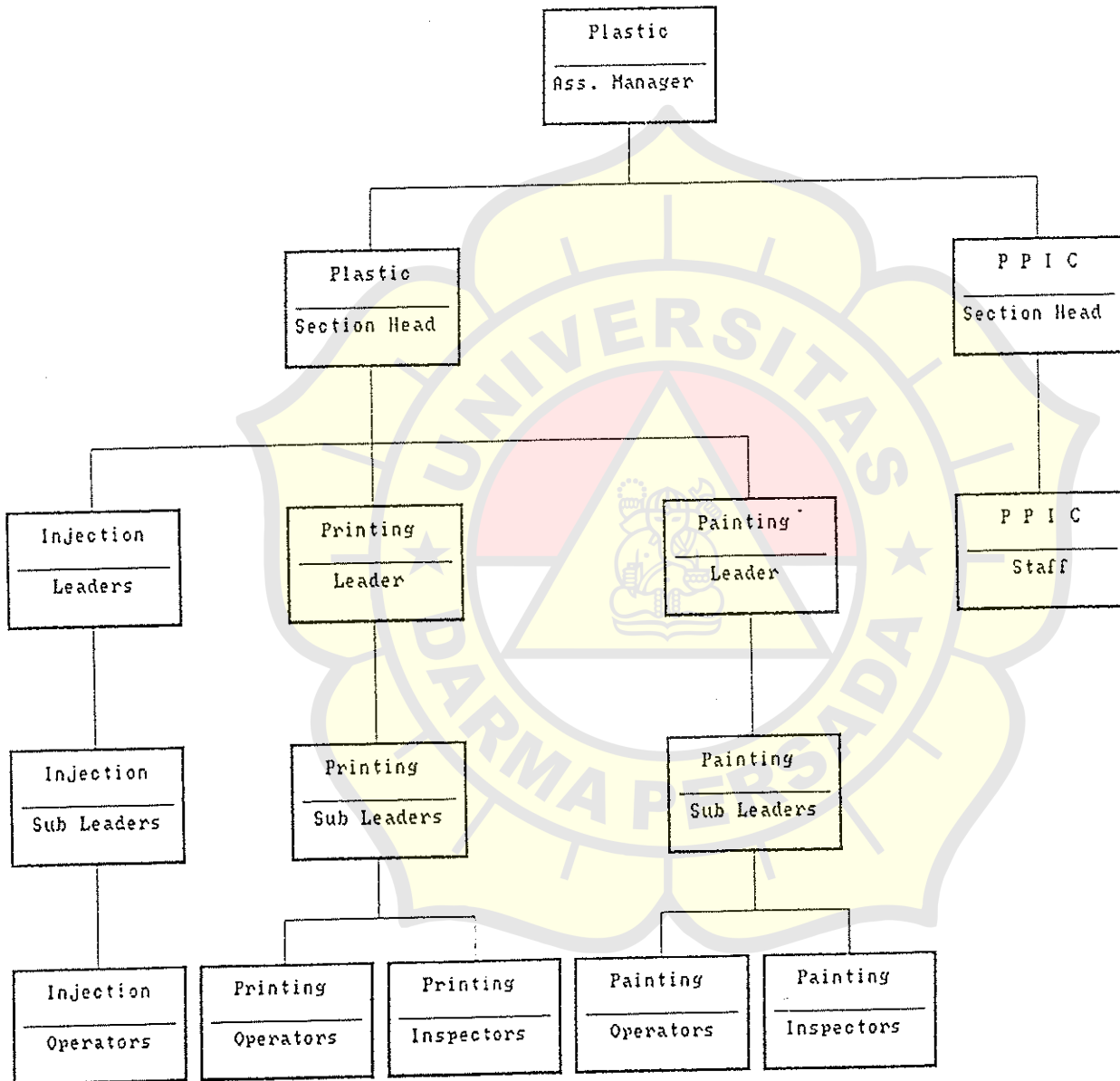
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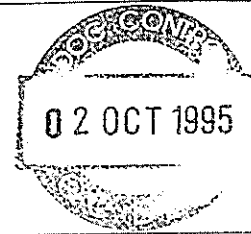
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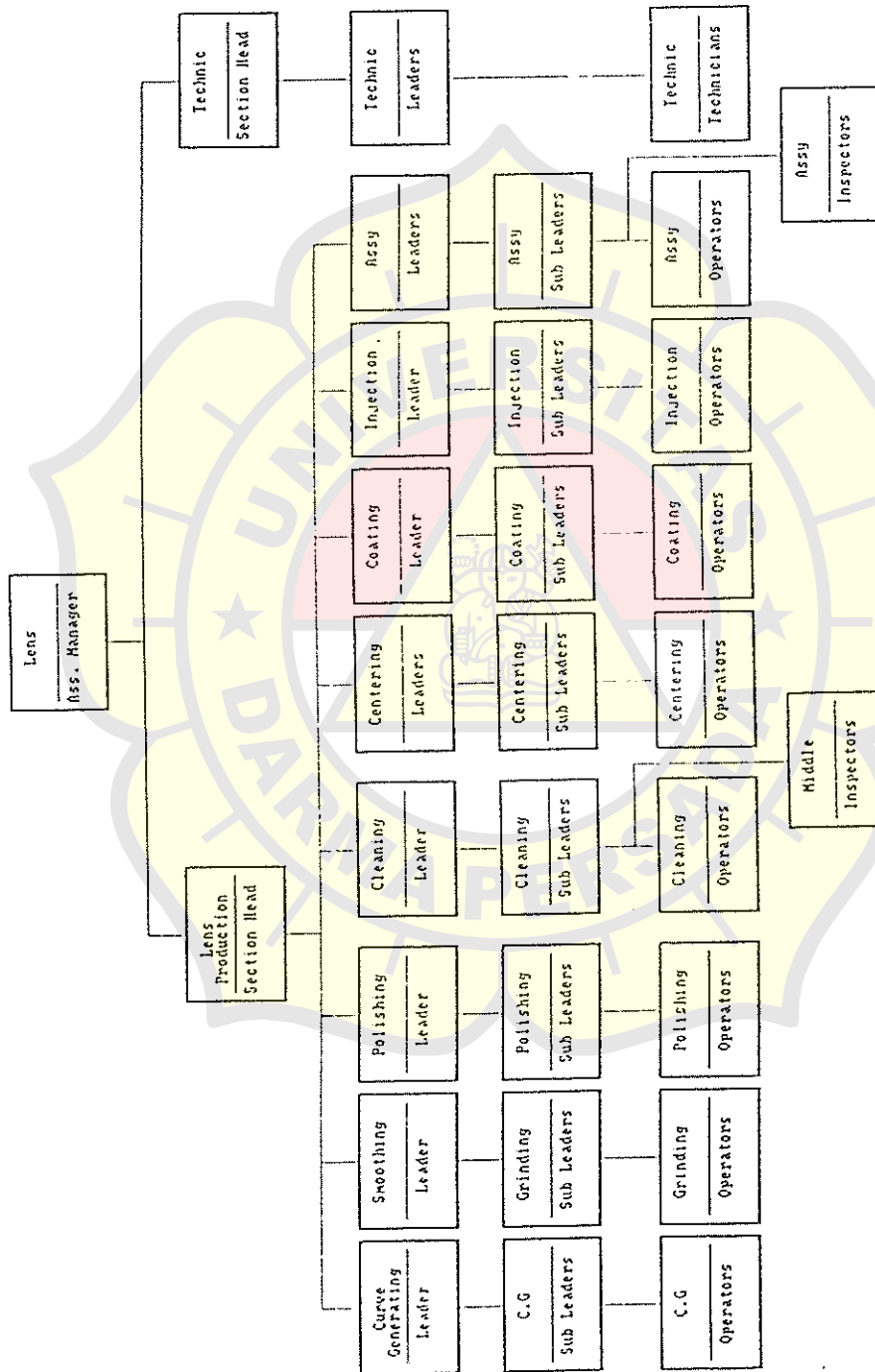
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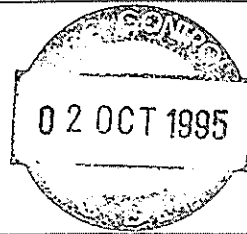
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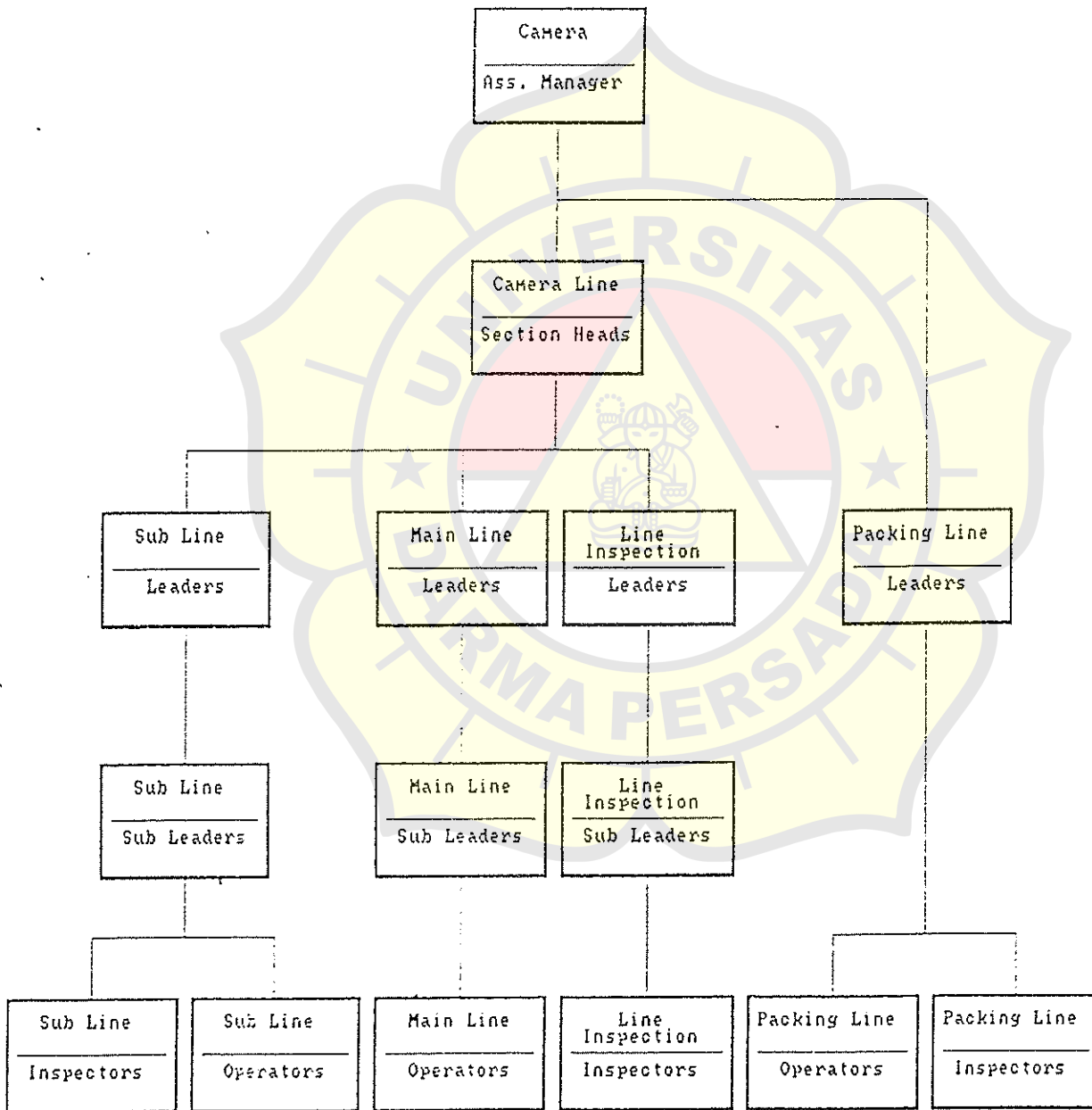
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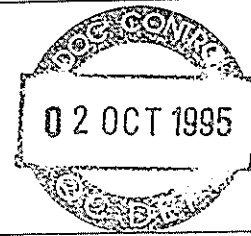
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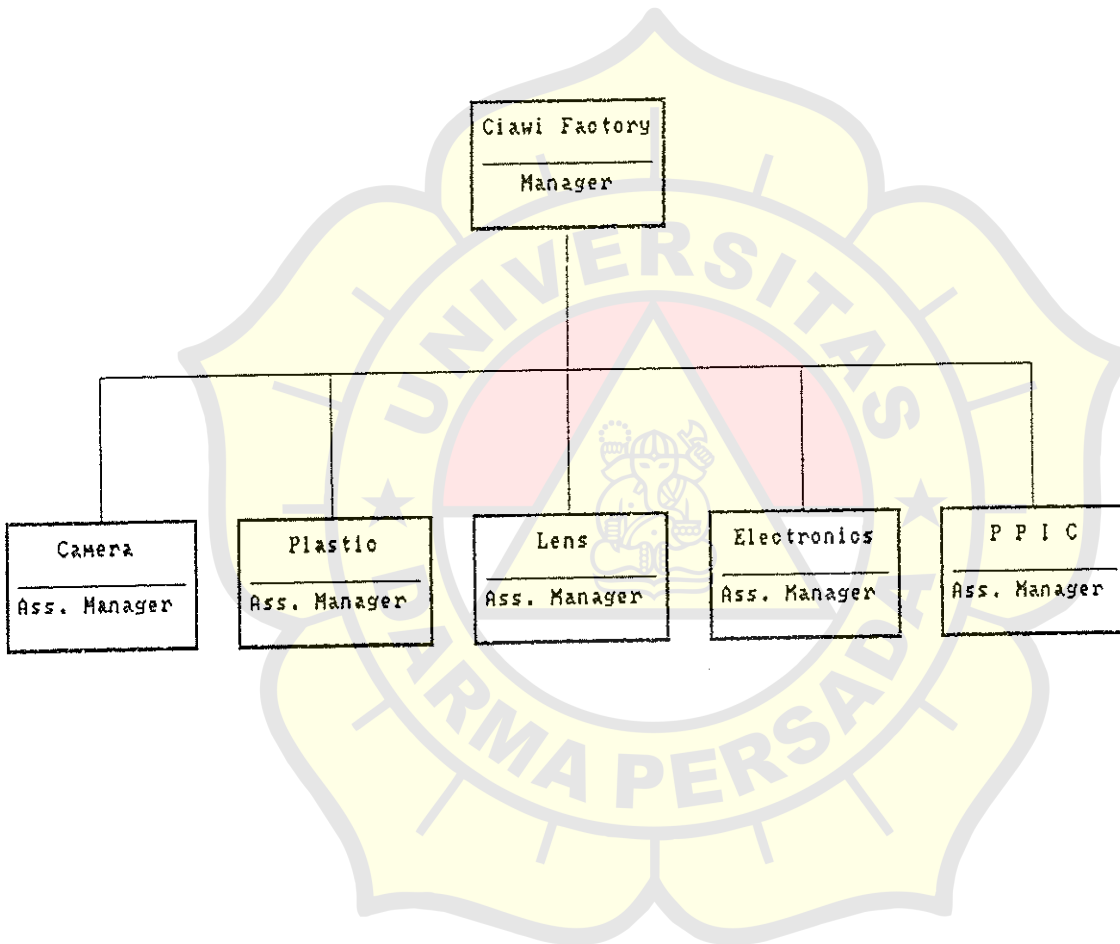
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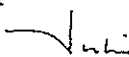
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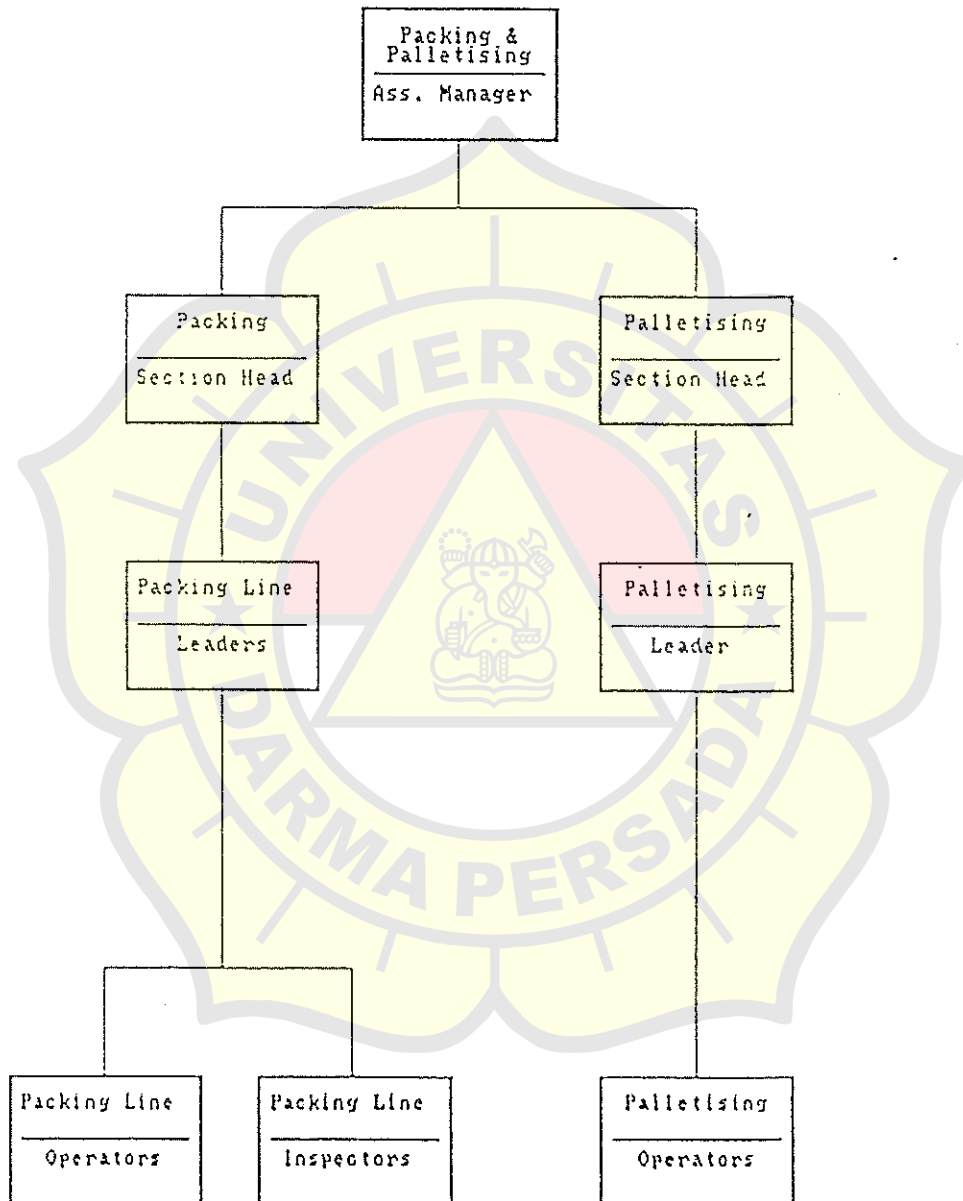


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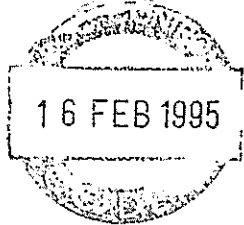



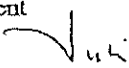
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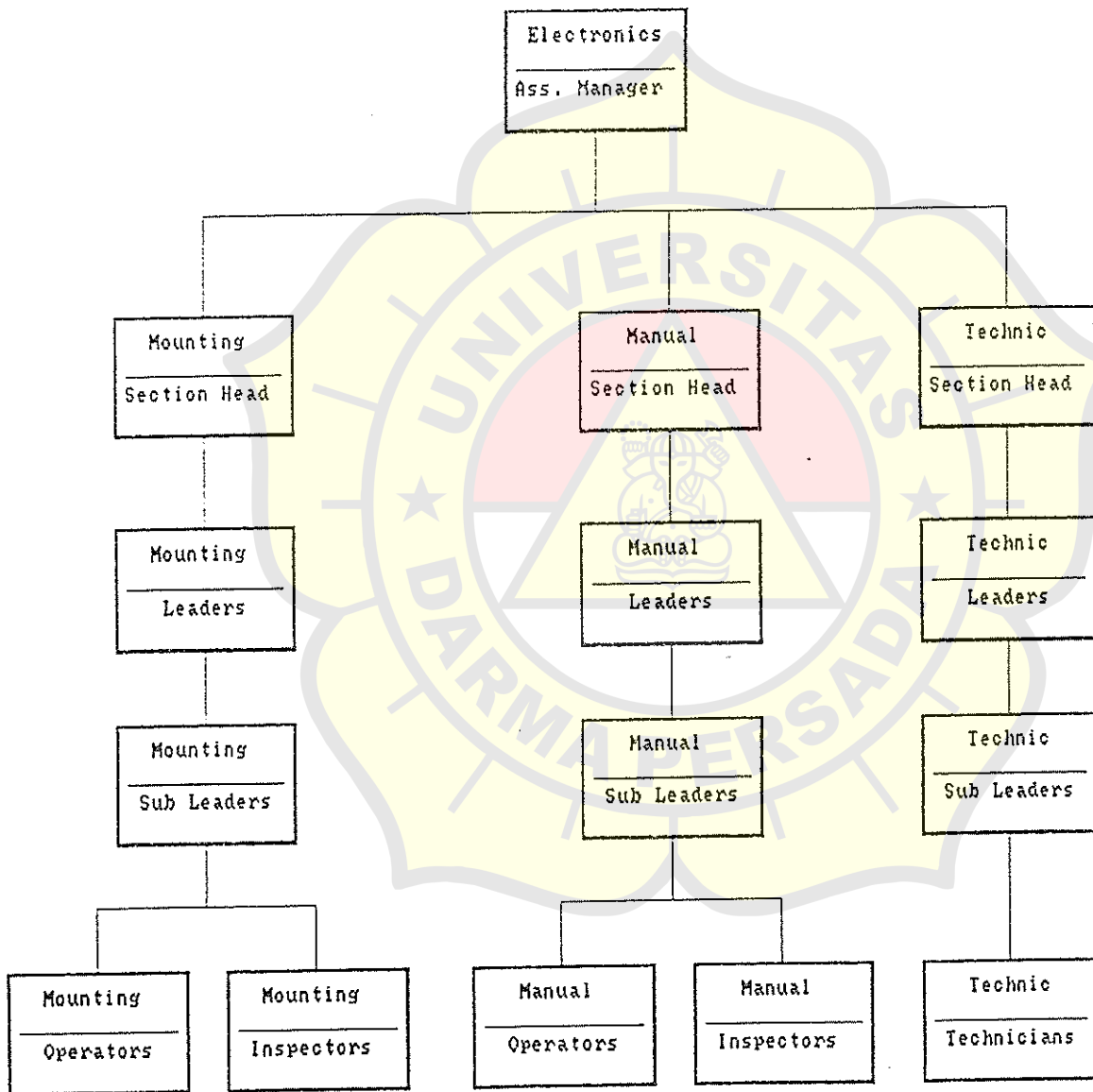
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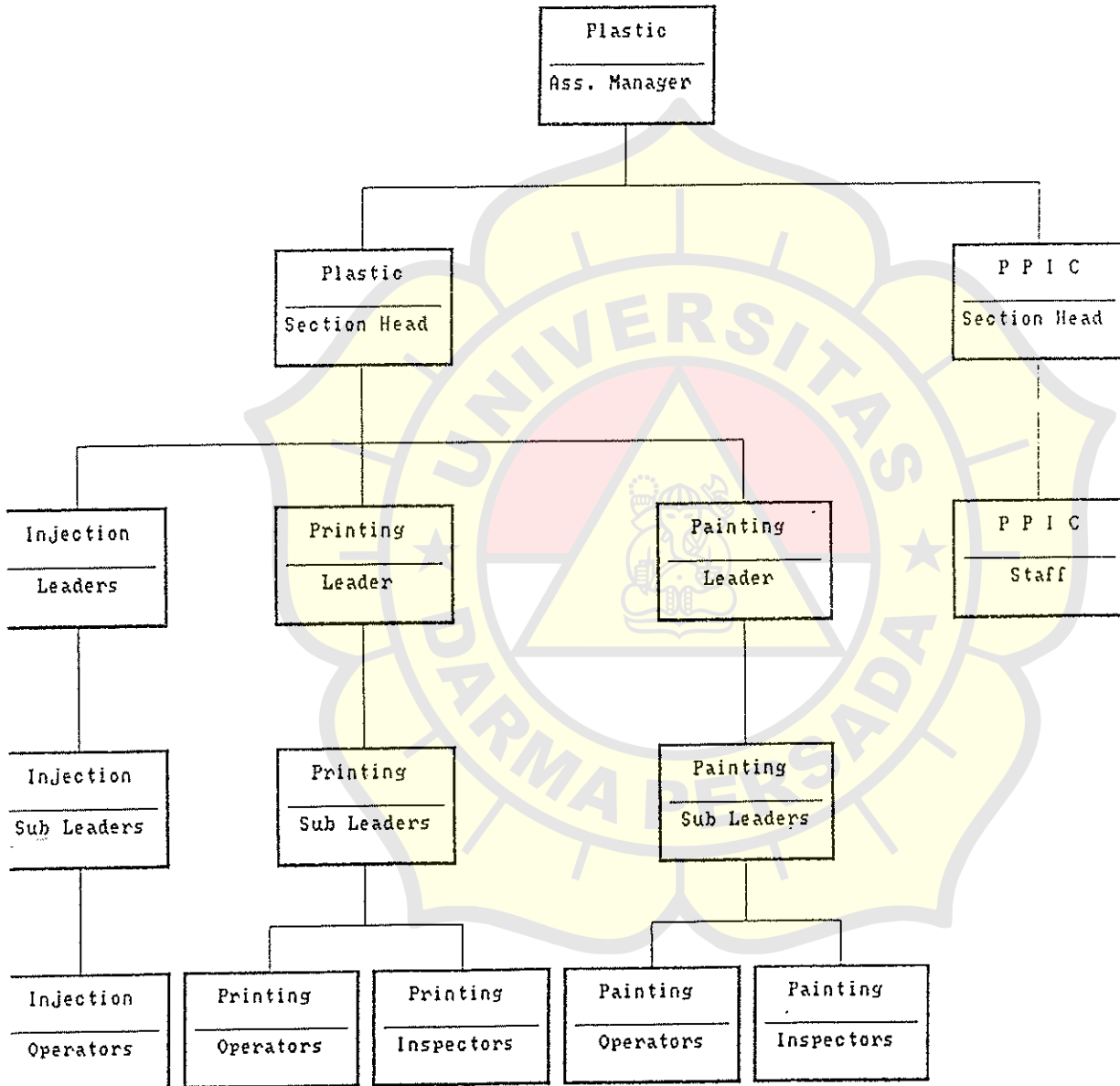
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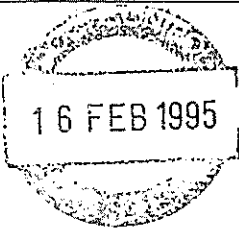
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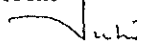


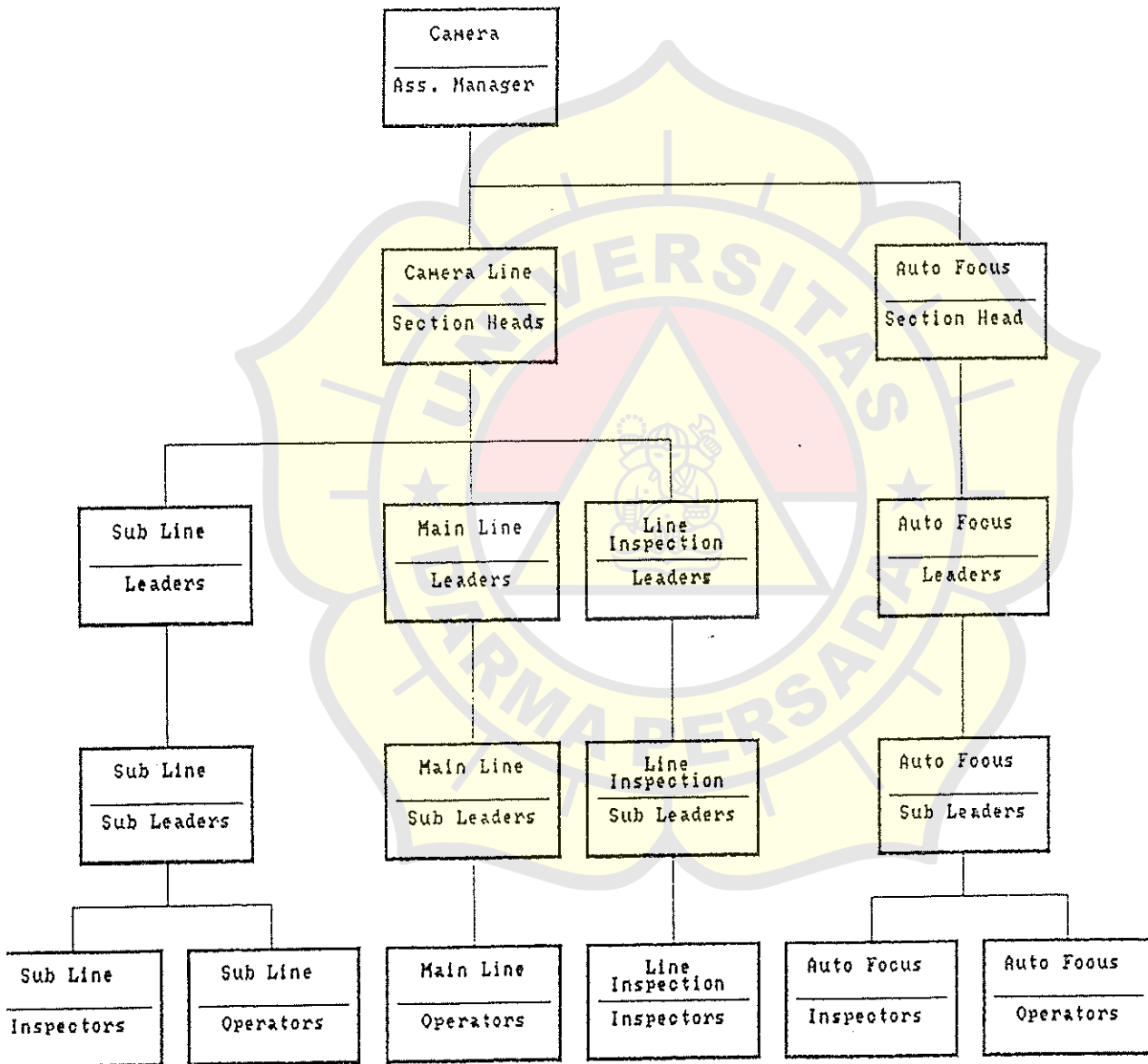
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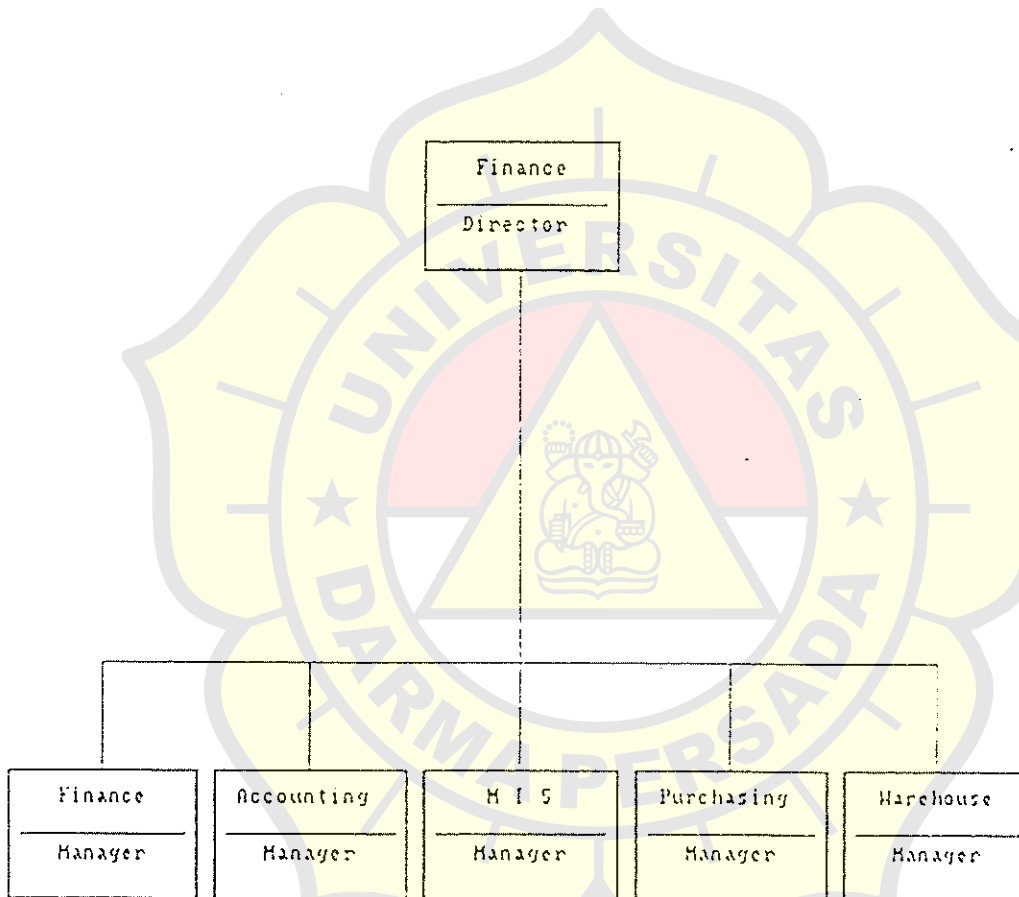


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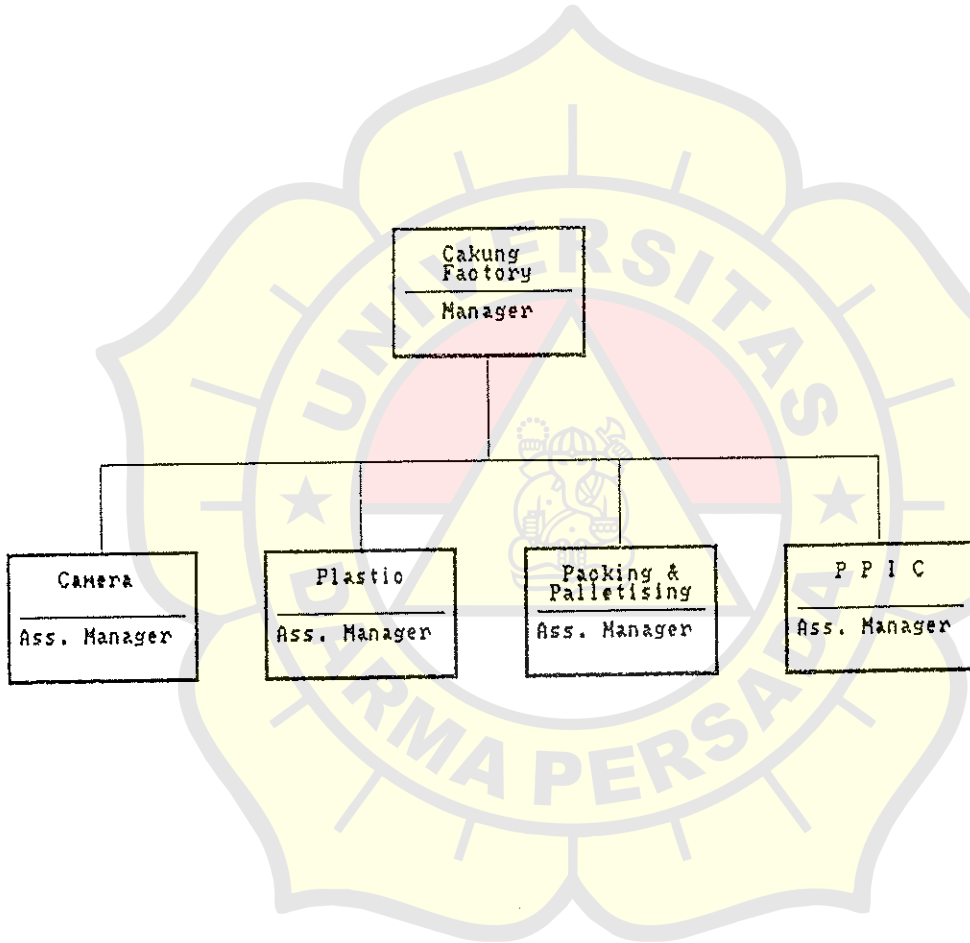
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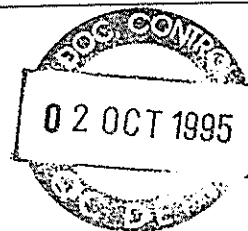
QUALITY MANUAL





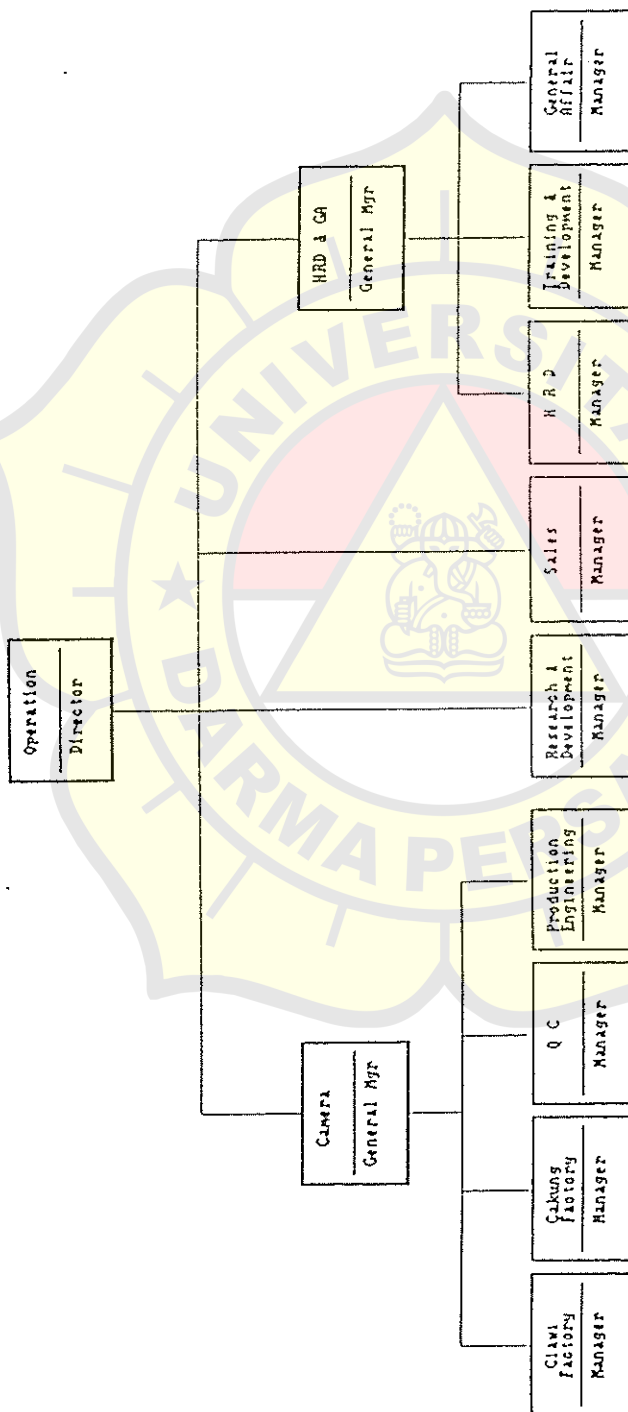
: (g Factory Organization Chart Manager level)	Prepared by : M.R.		Copy No. : 11
	Approved by : President		Page : 4/65
			Revision : 02
			Date : 02/10/95



QUALITY MANUAL


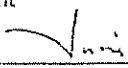


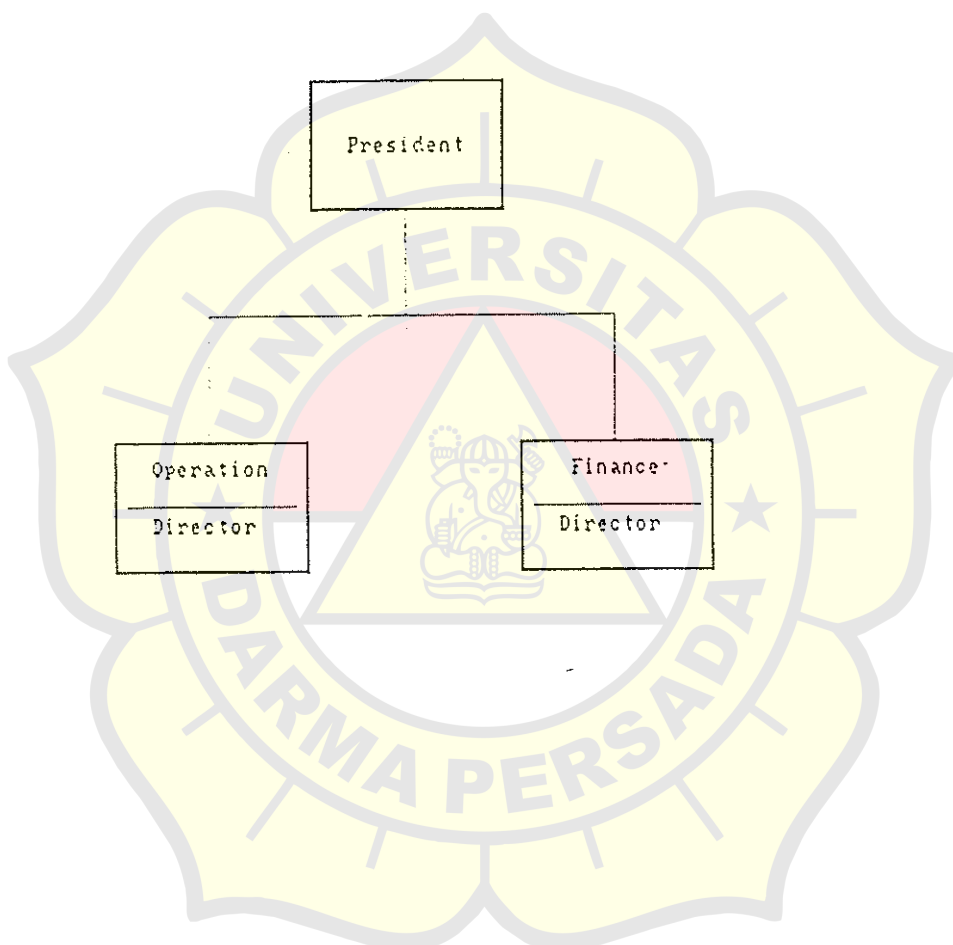
: ion Division Organization Chart	Prepared by : M.R.		Copy No. : 11
	Approved by : President		Page : 2/65
			Revision : 01
			Date : 02/10/95



QUALITY MANUAL



Title : Organization Chart (Director level)	Prepared by : M.R. 	Copy No. : 11
	Approved by : President 	Date : 01/06/94
		Page : 1/65
		Revision : 00



LAMPIRAN B

PROJECT FEASIBILITY CHECK LIST

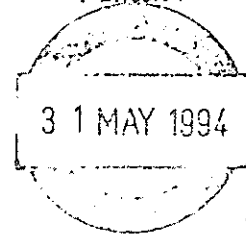
(LEMBAR PENGECEKAN TERHADAP KEMAMPUAN PROYEK)



Prepared by : Sales Manager
Approved by : Operations Director
Rev. : 00
Date : 27/05/94



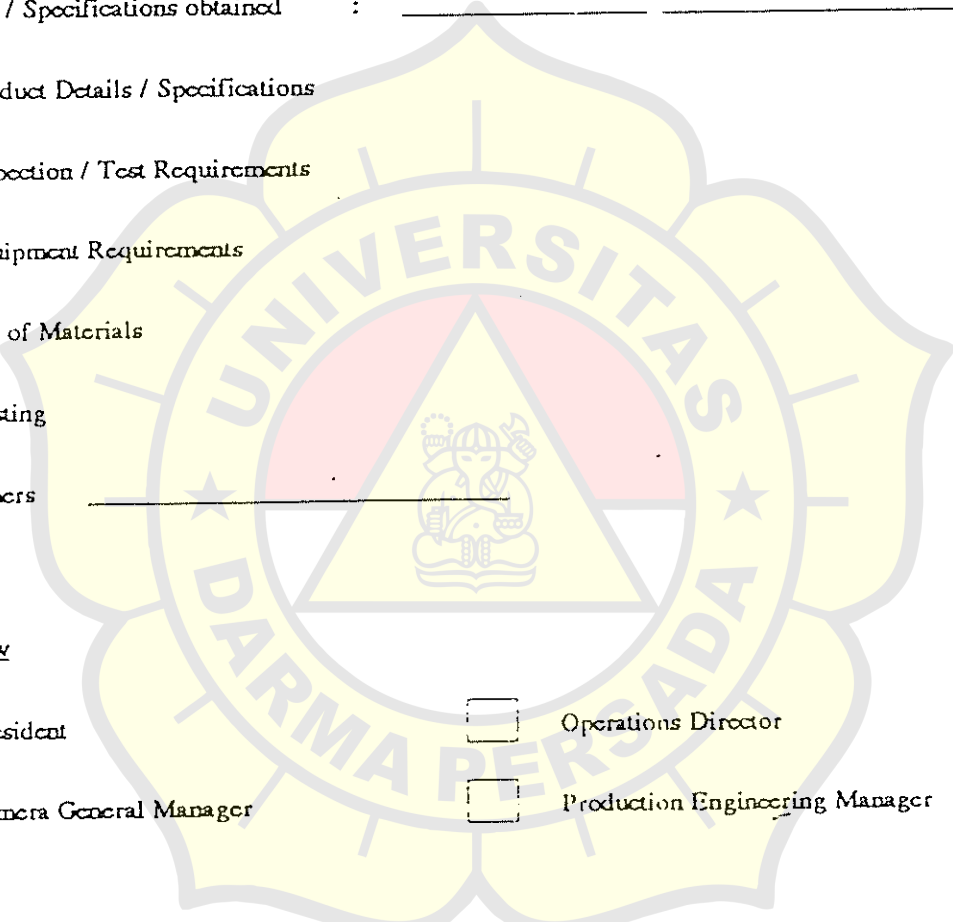
PROJECT FEASIBILITY CHECKLIST



Project Details

- o Camera Model / Name : _____
- o Features : _____
- o Potential Quantity Required : _____
- o Documents / Specifications obtained : _____

- Product Details / Specifications
- Inspection / Test Requirements
- Equipment Requirements
- Bill of Materials
- Costing
- Others _____



Internal Review

- President Operations Director
- Camera General Manager Production Engineering Manager

o Equipment : OK / NOT OK (delete as appropriate)

Comment / Action



PROJECT FEASIBILITY CHECKLIST

- o Human Resource : OK / NOT OK (delete as appropriate)

Comment / Action

- o Materials : OK / NOT OK (delete as appropriate)

Comment / Action

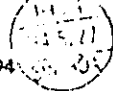
- o Technology : OK / NOT OK (delete as appropriate)

Comment / Action

- o Capital Investment : OK / NOT OK (delete as appropriate)

Comment / Action

Prepared by : Sales Manager
Approved by : Operations Director
Rev. : 00
Date : 27/05/94



PROJECT FEASIBILITY CHECK LIST

o Costing of Product : OK / NOT OK (delete as appropriate)

Comment / Action

o Product Life Cycle : OK / NOT OK (delete as appropriate)

Comment / Action

Other Information / Comment

Decision

The Project IS / IS NOT Feasible (delete as appropriate)

Recorded by Operations Director



Sign / Date

Approved by President

Sign / Date

The image features a large, semi-transparent watermark logo of Universitas Darma Persada. The logo is a yellow flower-like shape with eight petals. Inside the flower is a circular emblem containing a red triangle with a white border. The triangle contains a central figure of a person holding a book and a torch. The word "UNIVERSITAS" is written in a semi-circle above the triangle, and "DARMA PERSADA" is written in a semi-circle below it. Two small stars are positioned on either side of the triangle.

LAMPIRAN C

1. PURCHASE REQUISITION (SURAT PESANAN)
2. PURCHASE ORDER (PESANAN PEMBELIAN)
3. GOODS RECEIPT NOTE (CATATAN PENERIMAAN BARANG)



Prepared by : Purchasing Manager
 Approved by : Finance Director
 Rev. : 00
 Date : 27/05/94



PT. HONORIS INDUSTRY
 PURCHASE ORDER

Original Page : 1

ORION TRADING CO, LTD.
 DAIWA GINKO BLDG NO.2-2.2CHOME
 NIHONBASHI-HORIDOMECHO, CHUO-KU
 TOKYO, 3669-7176
 JAPAN

Delivery Address :
 PT. HONORIS INDUSTRY
 JL. RAYA BEKASI KM 25
 JAKARTA, 13910
 JAKARTA INDONESIA

JAKARTA, 13/05/94

Dear Sirs,
 Hereby we request the delivery of
 the following goods, according to
 our terms of delivery.

Supplier No. : 700001
 Our Order : 202807
 Date : 13/05/94
 Ref. : HI-186/No022.

LINE	QUANTITY	UM	PART NUMBER	E.T.A.	UNIT PRICE	AMOUNT
1	30000.00	EA	14.027.140302M SCREW 140302M	01/06/94	0.66	19.800.00
2	265000.00	EA	14.027.140302M SCREW 140302M	01/06/94	0.64	169.500.00
3	265000.00	EA	14.027.140352M SCREW 140352M	01/06/94	0.64	169.500.00
4	200000.00	EA	14.027.170302M SCREW 170302M	01/06/94	0.57	114.000.00
5	95000.00	EA	14.027.170352M SCREW 170352M	01/06/94	0.57	54.150.00
6	780000.00	EA	14.027.170402M SCREW 170402M	01/06/94	0.57	444.600.00
7	780000.00	EA	14.027.170402M SCREW 170402M	01/06/94	0.57	444.600.00
8	98000.00	EA	14.027.170502M SCREW 170502M	01/06/94	0.63	61.740.00
9	280000.00	EA	14.027.170402U SCREW 170402U	01/06/94	0.91	254.800.00
10	200000.00	EA	14.027.170502M SCREW 170502M	01/06/94	0.57	114.000.00

Delivery : F.O.B. Origin
 Payment : PEMAYARAN 14 HARI

Total Yen 1,846.890.00

Approved by.

Prepared by.

(_____)
 Purchasing Manager

(_____)
 Finance Director

(_____)
 Purchasing Dept.

NORIS INDUSTRY
RECEIPT NOTE

By: minx31

Mon Jul 25 17:20:37 1994
Original Page :

KOTO FILM CO
NISHIAZABU 2-CHOME
-KU, TOKYO 106
3406-2008
JAPAN



Delivery Address :
PT.HONORIS INDUSTRY
JL.RAYA BEKASI KM 25
JAKARTA, 13910
JAKARTA INDONESIA

Order No.: 700002
Order : 202910

Date : 19/07/94
Ref : 001/OCJ-16&17/PUR/VII/tg

PART NUMBER	ORDER QTY	REC QTY	RET QTY	STILL DUE	ARRIVED	VND DAT
1.023.2360438	60000.00	0.00	0.00	60000.00	.....	25/07/94
- CONTACT PIN		EA				
1.023.9206013	30000.00	0.00	0.00	30000.00	.....	25/07/94
[BATTERY		EA				
1.023.9205926	30000.00	0.00	0.00	30000.00	.....	25/07/94
-MODULE		EA				
1.023.2360437	28000.00	0.00	0.00	28000.00	.....	25/07/94
- BUTTON		EA				
1.023.2367820	26000.00	0.00	0.00	26000.00	.....	25/07/94
- PCB ASSY		EA				
1.023.1620912	27000.00	0.00	0.00	27000.00	.....	25/07/94
MOQUETTE		EA				
1.023.2360435	30000.00	0.00	0.00	30000.00	.....	25/07/94
} COVER		EA				
1.023.2360432	26000.00	0.00	0.00	26000.00	.....	25/07/94
} - CONTACT 1		EA				

Acknowledged by,

Checked by,

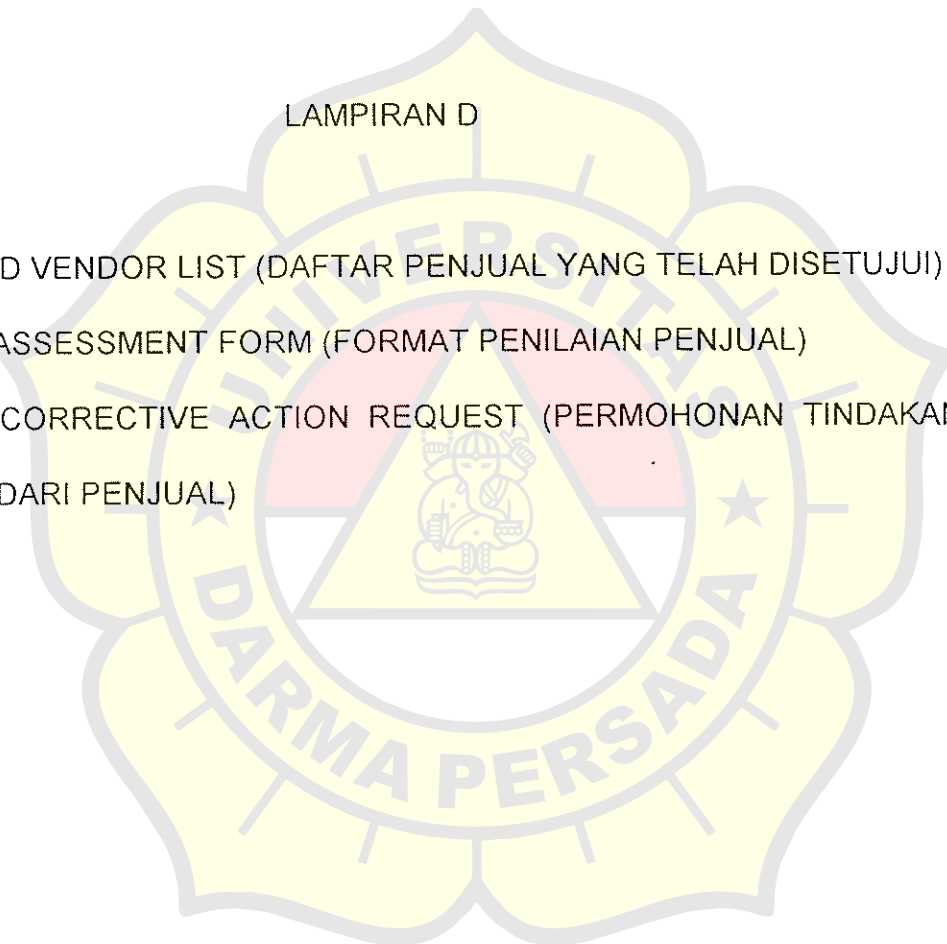
(_____)
P. Centre Sec. Head

(_____)
P. Centre Dept.

Prepared by : Purchasing Manager
Approved by : Finance Director
Rev. : 00
Date : 27/05/94

LAMPIRAN D

1. APPROVED VENDOR LIST (DAFTAR PENJUAL YANG TELAH DISETUJUI)
2. VENDOR ASSESSMENT FORM (FORMAT PENILAIAN PENJUAL)
3. VENDOR CORRECTIVE ACTION REQUEST (PERMOHONAN TINDAKAN KOREKSI DARI PENJUAL)



Prepared by : Purchasing Manager

Approved by / : Finance Director

Rev. 94.5.27 00

Date 27/05/94

VENDOR ASSESSMENT FORM

11. Document Collected :

- Business / Company profile
- Organization Chart
- Quality Manual (or Equivalent)
- Third Party Certificate
- Others : _____

Assessment

Grading

Has the vendor Implemented a Quality System ?

Comment : _____

1	2	3	4	5
(Poor)		(Ave.)		(Good)

Are there inspection plans used for Quality Control / Assurance ?

Comment : _____

1	2	3	4	5
(Poor)		(Ave.)		(Good)

Does the vendor has an effective corrective/preventive action system ?

Comment : _____

1	2	3	4	5
(Poor)		(Ave.)		(Good)

Are personnel trained on their jobs, including inspectors and operators ?

Comment : _____

1	2	3	4	5
(Poor)		(Ave.)		(Good)

Does the vendor has a proper document Control System ?

Comment : _____

1	2	3	4	5
(Poor)		(Ave.)		(Good)

VENDOR ASSESSMENT FORM

Has the vendor Implemented a Calibration System ?

1	2	3	4	5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comment : _____

(Poor) (Ave.) (Good)

Are there work instructions used for workmanship reference ?

1	2	3	4	5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comment : _____

(Poor) (Ave.) (Good)

Is house keeping carried out appropriately ?

1	2	3	4	5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comment : _____

(Poor) (Ave.) (Good)

Are Production equipment maintained regularly ?

1	2	3	4	5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comment : _____

(Poor) (Ave.) (Good)

Are there management plans for achieving company's objectives ?

1	2	3	4	5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comment : _____

(Poor) (Ave.) (Good)

Total Score : _____

Average Score : $\frac{\text{Total Score}}{10} =$ _____

Grading :

- 1 : Poor
- > 1 ~ < 3 : Below Average
- 3 : Average
- > 3 ~ < 4 : Above Average
- 5 : Good

Note : the vendor is normally recommended if the grading is 'Average' or 'Above'.

Prepared by : Purchasing Manager

Approved by : Finance Director

Rev. 5.4.5.27.00

Date 27/05/94

VENDOR ASSESSMENT FORM

o Overall Comment : _____

o The vendor IS / IS NOT *(delete as appropriate)* recommended for the supply of
_____ (Material / Product / Subcontract Work)

o Assessment caused out by :

_____ Purchasing Manager _____ QC Manager _____ Prod. Engineering Manager
on _____ (Date) via On-site Document Check

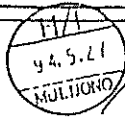
Review & Approval

Review comment : _____

Approval / Disapproved *(delete as appropriate)*

Finance Director's Sign

Date



Conny P.
TONI.W

Prepared by : Purchasing Manager
Approved by : Finance Director

VENDOR CORRECTIVE ACTION REQUEST

Rev. : 00

Date : 27/05/94



Vendor _____		Vendor Reference _____		Date : _____
Material / Part No. _____	Lot No. _____	Quantity _____	VCAR No. _____	
Description _____	Raised by _____		Acknowledged by _____	

Problem Description

(To be completed by Vendor)

Causes

Corrective Actions / Deadline

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Verification by PT Honoris Industry

Corrective Action Satisfactory and Comments

Checked by IQC Inspector :

_____ Sign

Date _____



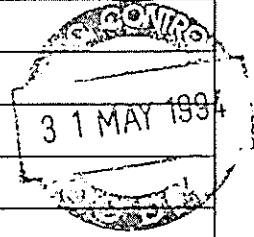
VENDOR CORRECTIVE ACTION REQUEST

Rev. : 00

Date : 10/04/95

(材料供給者対策依頼書)

VENDOR:	VENDOR REFERENCE:	DATE:
供給者:	供給者 NO:	日付:
MATERIAL/PART NO.	LOT:	VCR NO:
材料名:	QUANTITY:	
DESCRIPTION:	RAISED BY:	ACKNOWLEDGED BY:
備考:	担当者:	承認者:



PROBLEM DESCRIPTION

問題点

TO BE COMPLETED BY VENDOR(供給者記述欄)

日付:

記入者署名

CAUSES

CORRECTIVE ACTION/DEADLINE

原因

対策

VERIFICATION BY PT HONORIS INDUSTRY

IS THE CORRECTIVE ACTION SATISFACTORY AND COMMENTS

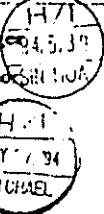
VERIFIED BY IQC INSPECTOR:

DATE _____

SIGN _____

LAMPIRAN E

1. MASTERLIST OF SUPPLIED PRODUCTION EQUIPMENT (DAFTAR ALAT YANG DISEDIAKAN PEMBELI)
2. MASTERLIST OF SUPPLIED INSPECTION/MEASURING/TEST EQUIPMENT/PROGRAM (DAFTAR INSPEKSI/UKURAN/PENGETESAN ALAT/PROGRAM)
3. SUPPLIED EQUIPMENT VERIFICATION RECORD (CATATAN VERIFIKASI ALAT)
4. SUPPLIED EQUIPMENT DISCREPANCY RECORD (CACATAN KETIDAKSESUAIAN)
5. A SAMPLE OF EQUIPMENT MAINTENANCE RECORD (CONTOH CATATAN PEMELIHARAAN ALAT)
6. INSPECTION/MEASURING/TEST EQUIPMENT CARD (KARTU INSPEKSI/UKURAN/PENGETESAN ALAT)
7. REPORTING OF EQUIPMENT FORM (FORMAT LAPORAN TERHADAP ALAT)



SUPPLIED EQUIPMENT VERIFICATION RECORD

Rev. : 00

Date : 27/05/94

Equipment Name / No. _____

Received by _____

No. of pieces _____

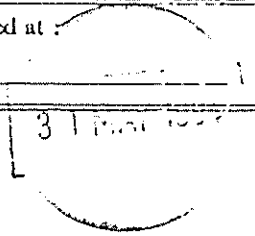
Date _____

Customer : _____

Customer reference doc. : _____

Function / to be used at : _____

Verification



Correct / Incorrect (/ X)

Type Equipment No.

Model Q'ty

Comment : _____

General condition : crack, chip, missing components

Acceptable

Unacceptable

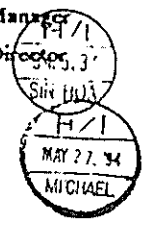
Comment : _____

Checked by : _____ Date : _____

Checked by Production Engineering Manager

Comment : _____

Printed / Date : _____



SUPPLIED EQUIPMENT DISCREPANCY REPORT

Rev. : 00

Date : 27/05/94

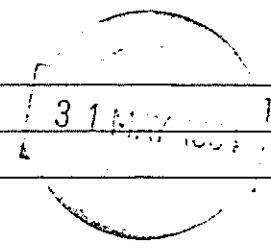
Equipment : Production / Inspection, Measuring, Test (Delete as appropriate)

Name / No. : _____

No. of pieces affected : _____

Purpose of equipment : _____

Problem description : _____



Requested by : _____

Location : _____

Acknowledged by : _____

Date : _____

Customer's disposition : _____

Accepted by customer : _____ Date : _____

Follow up comment : _____

_____ Date : _____

(Name / Sign)

EQUIPMENT MAINTENANCE RECORD

Date : 27/05/94

Name :	Last Maintenance :
:	Current Maintenance :
No. :	Periode :
na :	Engineer :

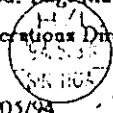
banical 1. Ganti Oli/Isi Oli 2. Check Tekanan Angin 3. Check Solenoid Valve 4. Check Absorber 5. Bersihkan Filter Air Regulator 5. Check Jig 7. Check Baut-Baut 8. Memberi Grease/gemuk 9. Check/ukur jarak Chart	<input type="checkbox"/> 10. Bersihkan piringan pengatur cahaya <input type="checkbox"/> 11. <input type="checkbox"/> 12. Note :
--	---

ical . Cleaning Head Computer . Check Kabel-kabel . Check/ganti Switch . Check Tegangan Power . Check/ganti Probe Pin . Check Tegangan Ground . Check Temperatur Heater . Check/ganti Socket Lampu . Bersihkan/ganti Fan & Filtornya	<input type="checkbox"/> 10. Check/ganti Connector <input type="checkbox"/> 11. <input type="checkbox"/> 12. Note :
---	--

l . Bersihkan Lensa . Check kedudukan Lensa . Check Penerangan Ruang Kerja . Bersihkan Cermin/Kaca . Bersihkan Reflektor	<input type="checkbox"/> 10. <input type="checkbox"/> 11. <input type="checkbox"/> 12. Note :
---	---

d by, _____ Checked by, _____

REPORTING OF EQUIPMENT



Department/Line _____

Equipment Name / No. _____

No. of pieces : _____

Problem Description :

31

Reported by : _____

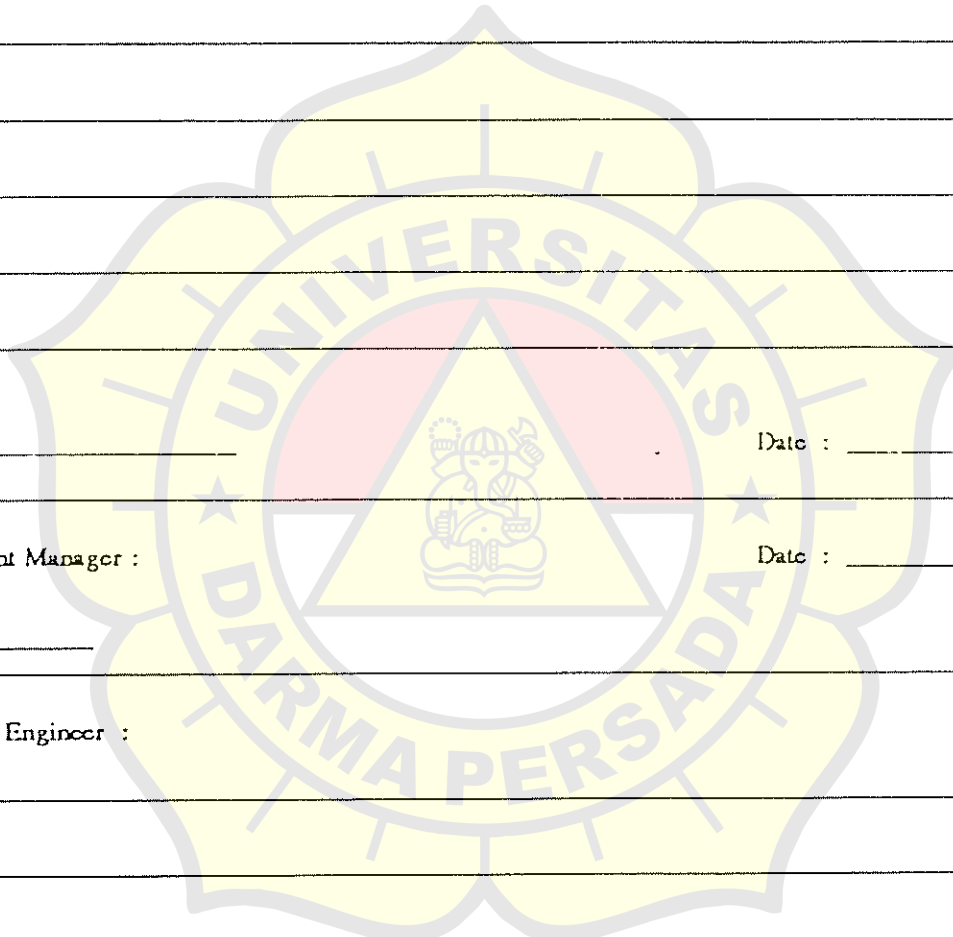
Date : _____

Approved by Department Manager :

Date : _____

Approved by Equipment Engineer :

1 / Date : _____



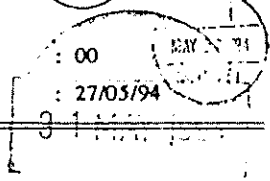
LAMPIRAN F

1. MASTERLIST OF INSPECTION/MEASURING/AND TEST EQUIPMENT
(INSPEKSI/UKURAN/DAN PENGETESAN ALAT)
2. INSPECTION/MEASURING/TEST EQUIPMENT CARD (KARTU
INSPEKSI/UKURAN DAN PENGETESAN AKHIR)
3. INTERNAL CALIBRATION REPORT (CATATAN KALIBRASI INTERNAL)
4. A SAMPLE OF EXTERNAL CALIBRATION REPORT (CONTOH CATATAN
KALIBRASI EXTERNAL)
5. "DO NOT USE - FOR CAL", LABEL
6. CALIBRATION STICKER (STICKER KALIBRASI)
7. EQUIPMENT TROUBLE REPORT FORM (FORMAT CATATAN MASALAH
ALAT)

INTERNAL CALIBRATION REPORT

Rev. : 00

Date : 27/05/94



Equipment Name/Description : _____

No. : _____

Location use : _____

Customer Supplied : Yes / No

Customer Name/Description : _____

No. : _____

Master Calibration Report Reference : _____

Calibration : _____

Date : _____

Report No. : _____

Findings :

Final Comments : (accuracy, conditions, etc.)

Checked by Production Engineering Manager : _____
Signature : _____

By : _____

Date : _____

名称 : LVチェッカー

製造番号 : T-11103

型式 : LC-3

製造年月日 : 94年 3月 日

1) 輝度リニア (±0.03 [LV] 以下)

Rev. : 00

Date : 27/05/94

輝度 [LV]	測定誤差 [LV]
4	-0.01
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	+0.01
16	+0.01
17	+0.00

$$\text{輝度 (L)} = \frac{10.76 \cdot K \cdot 2^{LV}}{S} \quad [\text{cd/m}^2]$$

$$\text{光束発散度 (M)} = \pi L \quad [\text{rlx}]$$

S : ISO

K : K値

LV値、輝度値 [cd/m²]、光束発散度 [rlx] 及び K値は内部マイコンにて計算。

輝度検査器マスター NO 2 LC-3 (龍坂電機)

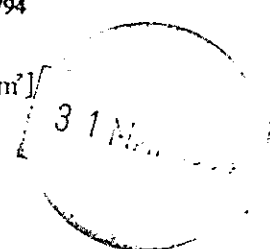
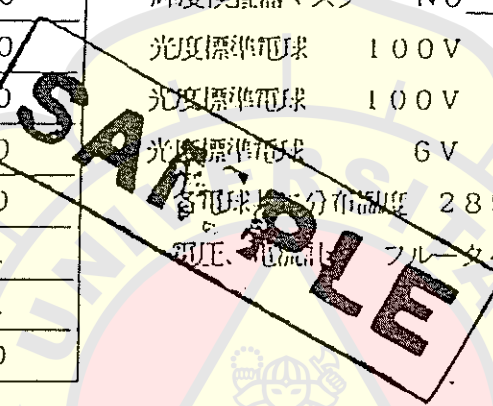
光度標準電球 100V 750W (近藤フィリップス)

光度標準電球 100V 100W (近藤フィリップス)

光度標準電球 6V 20W (近藤フィリップス)

各電球の分布温度 2856°K 一定

電圧、電流計 フルーク45 (フルーク)



-) K値補数確認 (LV10にて) K=1.0 ~ 2.0
-) 消費電流 17 mA (6Vにて 25mA MAX)
-) オートパワーオフ電流 11 μA (20μA MAX)
-) BATT 警告 5.2 V (5.0 ~ 5.4V)

合 否
 合
 合
 合
 合

測定日 : 94年 3月17日

室温 : 22℃ 湿度60%

この試験器は試験の結果、龍坂電機株式会社の基準を合格したことを証明します。

承認	試験者

龍坂電機株式会社 (印)

〒192 八王子市石川町1683-1
 TEL : 0426-46-1127
 FAX : 0426-46-1834

DO NOT USE,
FOR
CALIBRATION

H/I
545.30
SIN HOA

MAY 27 1994
MICHAEL

LANGGAN PAKAI,
UNTUK
KALIBRASI

Prepared by : Prod. Eng. Manager
Approved by : Operations Director
Rev. : 00
Date : 27/05/94

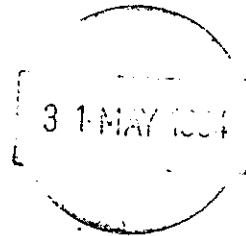
Approved by : Operations Director

Rev. : 00

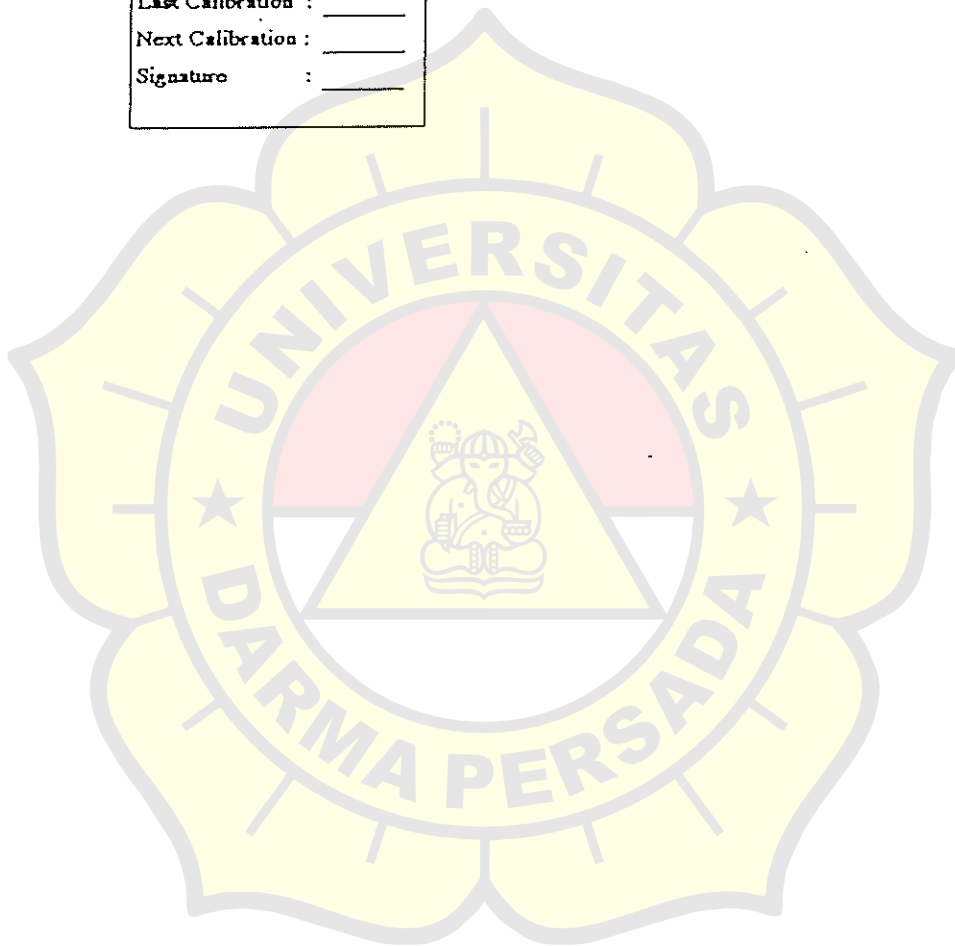
Date : 27/05/94



CALIBRATION STICKER



PT Honoris Industry
Last Calibration : _____
Next Calibration : _____
Signature : _____





EQUIPMENT TROUBLE REPORT

Date : _____	Equipment Name : _____
Department : _____	Equipment No. : _____
Location Use : _____	

31 MAY 1994

Problem Description :

Reported by :

Action by Equipment Engineer :

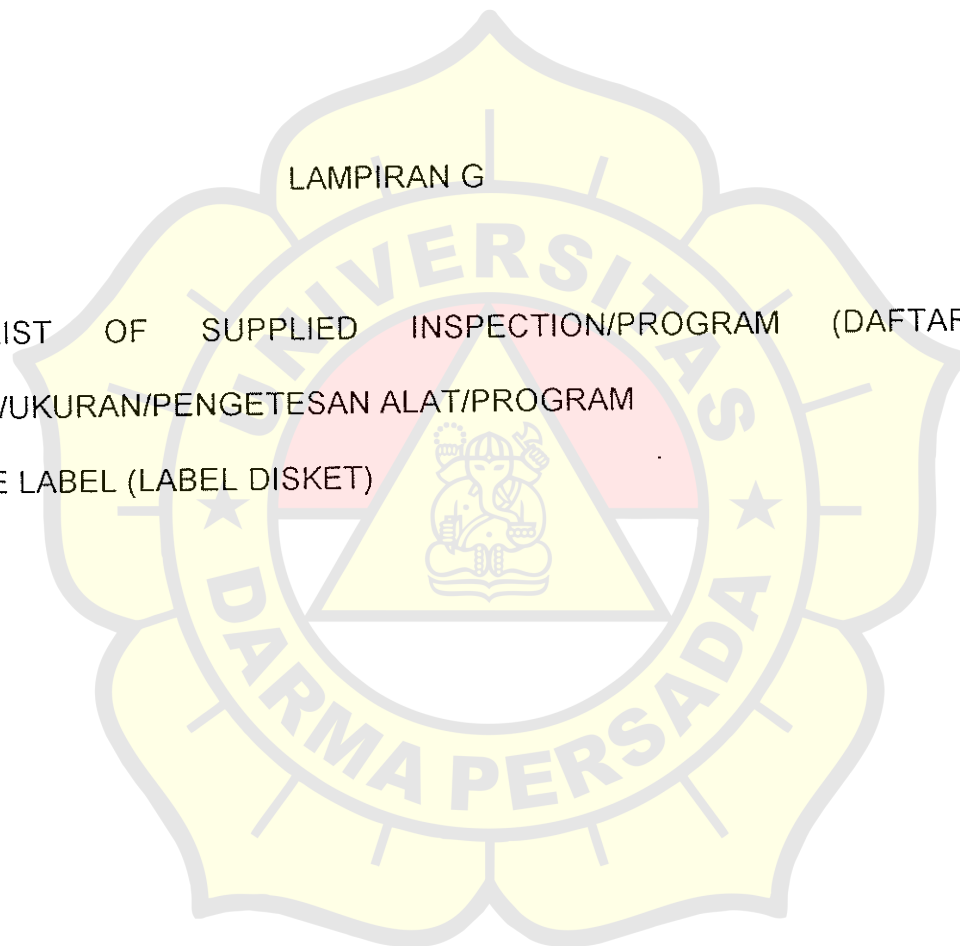
Parts Replacement :

Checked by :

Sign/Date : _____

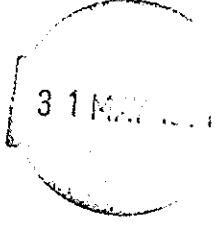
LAMPIRAN G

1. MASTERLIST OF SUPPLIED INSPECTION/PROGRAM (DAFTAR INSPEKSI/UKURAN/PENGETESAN ALAT/PROGRAM)
2. DISKETTE LABEL (LABEL DISKET)

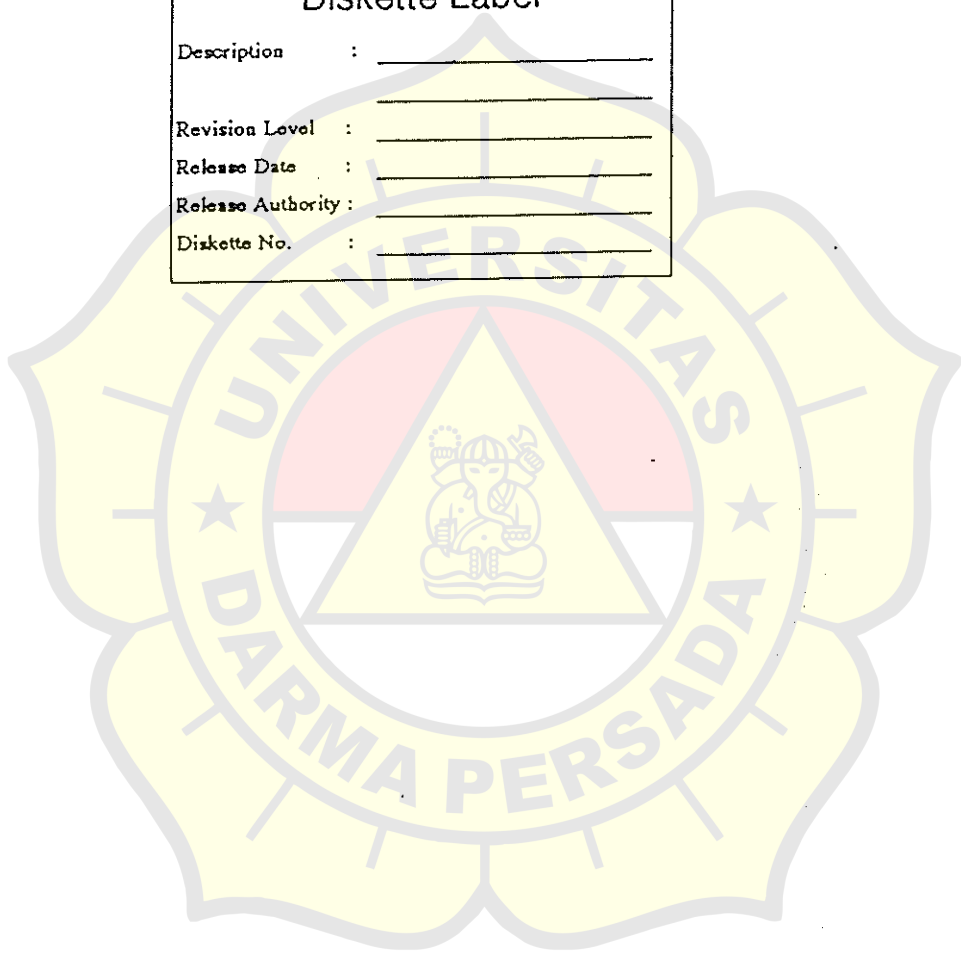


Prepared by : Prod. Eng. Manager
Approved by : Operations Director
Rev. : 00
Date : 27/03/94

DISKETTE LABEL

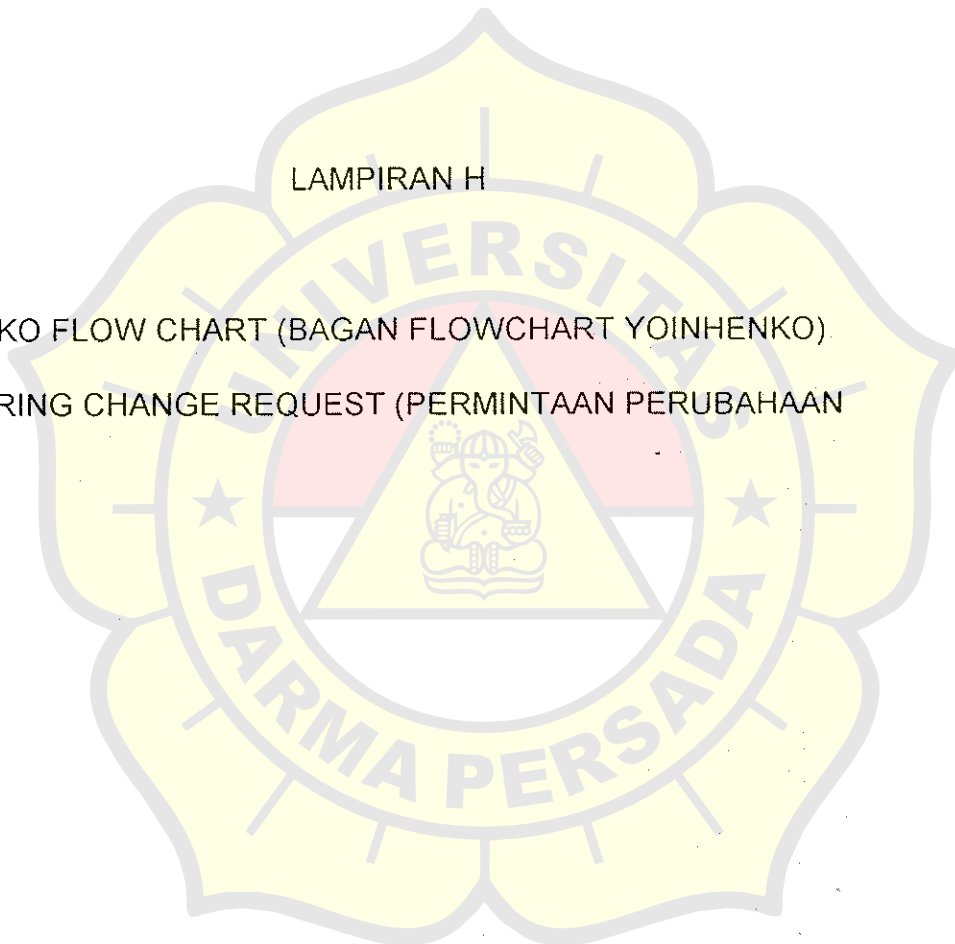


Diskette Label	
Description :	_____
Revision Level :	_____
Release Date :	_____
Release Authority :	_____
Diskette No. :	_____



LAMPIRAN H

1. YOINHENKO FLOW CHART (BAGAN FLOWCHART YOINHENKO)
2. ENGINEERING CHANGE REQUEST (PERMINTAAN PERUBAHAN TEKNIK)



PT Honoris Industry

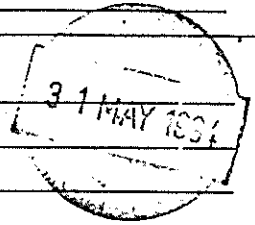
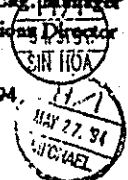
Prepared by : Prod. Eng. Manager

Approved by : Operations Director

Rev. : 00

Date : 27/05/94

ENGINEERING CHANGE REQUEST



Initiated by : _____	Date : _____	Engineering Change Request No. : _____
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Details

Reasons

Departments / Functions affected

1. _____
2. _____
3. _____

Other Information

Review and approval by QC Manager _____

Review Comment : _____

Approved / Disapproved (delete as appropriate)

Sign / Date : _____