

1992 Total Number of Verification

(1/3)

(Senti)	(Desi)	(Micia)	(Dacin)	(Kwadran)	(Cepat)	(Pegas)	(Boti)	(Lembaran)	(Elektoro)	(Curah)	(Bamberal)	(Badan)	(Tokok)	(Millsimal)	(Solution Balance)
Mass															
(Others) Balance and weighing Seal															
Centesimal Bal.	Dosimal Bal.	Poable Dial Seale	Steeleyard	Non Limier Bal.	Dial Seale	Spring Bal.	Sliding Poise Bal.	Track Seale	Electric Weig. seale	(Wadah curah)	Conveyer Belt Seale	(Badan)	(Tokok)	Millsimal Bal.	Solution Balance
3,207	1	2,173	3,479	39	30	43	2,239	12	16	0	0	0	0	0	0
676	0	510	1,231	15	2	13	538	20	1	0	0	0	0	0	0
10,888	5	9,809	9,316	108	147	859	10,680	276	271	0	0	0	0	0	0
3,022	5	712	4,021	6	61	60	4,045	46	5	0	0	0	0	0	0
2,370	3	3,821	9,180	72	21	85	1,000	22	17	0	0	0	0	0	0
1,884	0	1,795	10,662	47	61	714	4,460	57	31	0	0	0	0	0	0
983	0	297	3,763	39	7	46	1,234	8	28	0	0	0	0	0	0
1,982	0	593	3,390	9	262	77	2,203	32	32	8	1	0	0	0	0
3,110	0	5,658	3,631	11	7	6	722	127	26	2	0	0	0	0	0
639	9	514	1,817	24	9	17	234	7	3	0	0	0	0	0	0
5,511	4	11,115	2,143	80	1,174	1,637	4,468	130	3,880	0	0	0	0	13	0
7,733	6	21,101	13,409	1,024	936	949	3,265	54	1,050	0	0	0	0	0	0
1,736	0	3,734	3,579	44	211	122	580	124	453	0	0	0	0	1	0
2,868	0	4,674	7,619	46	178	62	485	59	207	0	0	0	0	0	0
3,441	5	14,713	6,716	52	509	210	1,728	45	384	5	0	0	0	0	0
4,678	2	28,518	17,767	52	55	75	529	8	86	0	0	0	0	0	0
5,402	9	20,180	13,509	47	64	71	582	27	86	0	0	0	0	0	0
10,646	6	23,760	113,509	106	309	204	1,656	47	254	0	0	0	0	0	0
4,608	4	19,987	6,580	82	92	93	183	20	110	3	0	0	0	1	0
3,808	2	20,704	10,874	59	86	80	175	1	66	0	0	0	0	47	0
3,731	0	17,789	5,432	74	39	84	100	24	74	0	0	1	0	0	0
14,976	2	91,716	14,996	119	81	143	365	41	337	0	0	0	0	0	0
4,092	0	18,231	2,683	85	45	106	75	8	26	0	0	0	0	0	0
3,352	0	94,873	7,59	59	151	71	103	10	43	0	0	1	0	0	0
11,750	1	32,404	5,892	71	650	152	777	240	1,081	18	0	0	0	1	0
12,486	1	33,164	1,509	30	129	52	87	47	135	0	2	0	0	0	0
11,830	0	31,799	1,990	43	300	83	277	114	97	0	4	0	0	0	0
3,938	0	18,291	3,941	47	57	55	26	24	38	0	0	0	0	0	0
6,868	0	20,958	2,301	71	46	80	44	69	69	4	0	0	0	0	0
3,756	0	10,539	1,984	24	21	62	25	7	18	3	0	0	0	0	0
1,217	0	190	12,793	52	37	80	912	12	34	0	0	0	0	0	0
1,398	0	134	5,186	13	5	21	545	1	3	0	0	0	0	0	0
242	0	2,901	1,099	13	0	19	38	2	1	0	0	0	0	0	0
1,042	1	6,970	2,427	43	41	102	71	5	30	3	0	0	0	0	0
747	0	4,253	2,152	32	62	125	225	15	42	24	1	0	3	0	0
2,202	14	605	3,923	43	38	67	335	12	17	0	0	0	0	0	0
1,574	0	649	3,312	24	24	40	108	1	2	0	0	0	0	0	0
3,841	0	1,722	4,321	33	126	74	504	43	135	148	0	0	0	0	0
457	0	941	2,253	29	25	41	61	2	6	0	2	0	0	0	0
3,567	0	14,893	744	47	53	73	98	7	68	0	0	0	0	0	0
2,258	0	7,243	3,350	51	27	56	38	13	7	0	0	0	0	0	0
762	0	2,187	1,998	43	17	84	84	2	4	0	0	0	0	0	0
306	0	456	1,319	11	9	17	184	0	3	0	0	0	0	0	0
447	0	202	581	19	1	19	29	1	3	0	0	0	0	0	0
236	0	1,178	611	39	20	65	222	2	5	0	0	0	0	0	0
151	2	1,174	410	11	24	36	63	3	16	0	2	0	0	0	0
217	0	617	333	13	12	14	27	0	4	0	0	3	3	0	0
176,635	73	610,447	334,999	3,107	6,256	7,225	46,441	1,829	9,290	218	12	5	6	63	1





Table 3-6 Number of Each Metrology Laboratories

No.	Branch Name	Insp.	Adj. Insp.	Metr. Pol.	Techn. Assist.	Admin. & Others	TOTAL
0	DOM	29	0	5	25	90	149
1	Banda Aceh	5	4	3	5	7	24
2	Langsa	1	1	4	0	1	7
3	Medan	8	5	8	10	20	51
4	P.Siantar	4	7	3	6	8	28
5	Padang	5	1	8	5	9	28
6	Pekanbaru	4	5	6	9	11	35
7	Jambi	5	5	3	2	4	19
8	Palembang	3	4	7	9	8	31
9	Lampung	5	3	9	10	5	32
10	Bengkulu	4	6	4	2	6	22
11	Jakarta	10	3	8	13	21	55
12	Bandung	8	1	9	11	14	43
13	Serang	5	3	6	4	3	21
14	Purwakarta	2	1	5	2	3	13
15	Bogor	4	3	7	8	7	29
16	Tasikmalaya	5	5	5	4	11	30
17	Cirebon	6	5	8	3	7	29
18	Semarang	17	1	7	9	17	51
19	Tegal	3	4	6	4	5	22
20	Pati	5	4	7	4	5	25
21	Purwokerto	5	2	8	3	7	25
22	Surakarta	7	7	8	10	10	42
23	Magelang	4	1	6	4	5	20
24	Yogyakarta	8	5	9	10	10	42
25	Surabaya	8	6	9	13	10	46
26	Jember	4	2	6	7	14	33
27	Malang	9	6	8	5	13	41
28	Madiun	4	2	5	6	5	22
29	Kediri	3	3	6	4	4	20
30	Bojonegoro	4	0	6	2	1	13
31	Pontianak	4	1	6	6	9	26
32	Singkawang	1	2	4	0	0	7
33	Palangkaraya	2	8	2	1	7	20
34	Banjarmasin	4	2	7	5	8	26
35	Samarinda	2	3	7	5	7	24
36	Manado	3	3	5	5	5	21
37	Palu	4	8	2	2	9	25
38	U.Pandang	5	12	3	6	14	40
39	Kendari	2	2	6	4	11	25
40	Dempasar	7	3	6	3	11	30
41	Mataram	5	8	3	4	6	26
42	Kupang	2	3	5	3	13	26
43	Ambon	3	0	5	4	8	20
44	Terate	1	0	3	1	2	7
45	Jaya Pura	1	2	4	2	6	15
46	Sorong	1	0	4	0	1	6
47	Dili	2	0	6	1	1	10
Total 1 (ALL)		243	162	277	261	459	1,402
Total 2 (BRA>)		214	162	272	236	369	1,253

## 1990 Staff

No.	Branch Name	Insp.	Adj. Insp.	Metr. Pol.	Techn. Assist.	Admin. & Others	TOTAL
0	DOM	30	0	5	26	88	149
1	Banda Aceh	5	3	4	3	7	22
2	Langsa	1	1	4	0	1	7
3	Medan	8	5	7	10	19	49
4	P.Siantar	4	7	3	6	8	28
5	Padang	4	1	8	5	9	27
6	Pekanbaru	4	5	5	9	11	34
7	Jambi	5	4	3	1	4	17
8	Palembang	3	4	7	9	8	31
9	Lampung	4	3	9	10	5	31
10	Bengkulu	4	6	5	2	4	21
11	Jakarta	10	3	8	13	21	55
12	Bandung	7	1	9	9	13	39
13	Serang	3	5	7	4	3	22
14	Purwakarta	4	1	8	2	3	18
15	Bogor	6	2	8	8	7	31
16	Tasikmalaya	4	5	5	5	11	30
17	Cirebon	5	4	8	2	7	26
18	Semarang	18	0	7	9	19	53
19	Tegal	4	3	6	4	6	23
20	Pati	6	3	8	4	5	26
21	Purwokerto	6	2	9	2	8	27
22	Surakarta	7	7	8	9	10	41
23	Magelang	4	1	6	4	5	20
24	Yogyakarta	8	5	11	9	9	42
25	Surabaya	8	6	10	14	10	48
26	Jember	4	2	6	6	10	28
27	Malang	9	6	8	5	13	41
28	Madiun	4	1	6	6	5	22
29	Kediri	3	3	6	4	4	20
30	Bojonegoro	4	0	6	2	1	13
31	Pontianak	4	1	6	6	9	26
32	Singkawang	1	2	4	0	0	7
33	Palangkaraya	2	8	2	1	8	21
34	Banjarnasin	5	1	7	6	7	26
35	Samarinda	2	3	8	6	7	26
36	Manado	3	3	5	4	4	19
37	Palu	4	8	3	2	9	26
38	U.Pandang	7	10	3	6	13	39
39	Kendari	2	2	6	4	11	25
40	Dempasar	7	3	6	3	11	30
41	Mataram	5	8	3	4	7	27
42	Kupang	2	3	5	3	13	26
43	Ambon	3	0	5	4	8	20
44	Temate	1	0	3	1	2	7
45	Jaya Pura	1	2	4	2	6	15
46	Sorong	1	0	4	0	1	6
47	Dili	2	0	6	1	1	10
Total 1 (ALL)		248	153	290	255	451	1,397
Total 2 (BRA>)		218	153	285	229	363	1,248

## 1991 Staff

No.	Branch Name	Insp.	Adj. Insp.	Metr. Pol.	Techn. Assist.	Admin. & Others	TOTAL
0	DOM	31	2	4	26	87	150
1	Banda Aceh	5	4	3	3	7	22
2	Langsa	1	2	4	1	0	8
3	Medan	9	5	7	10	18	49
4	P.Siantar	5	6	4	6	7	28
5	Padang	5	3	7	5	8	28
6	Pekanbaru	5	6	4	11	9	35
7	Jambi	5	5	3	2	5	20
8	Palembang	5	3	7	6	8	29
9	Lampung	5	4	8	9	5	31
10	Bengkulu	5	4	6	2	4	21
11	Jakarta	12	2	9	13	17	53
12	Bandung	7	3	9	8	13	40
13	Serang	4	4	7	4	4	23
14	Purwakarta	4	2	8	2	3	19
15	Bogor	5	4	7	8	6	30
16	Tasikmalaya	5	5	5	5	11	31
17	Cirebon	6	4	7	2	7	26
18	Semarang	18	2	6	8	18	52
19	Tegal	5	3	6	4	7	25
20	Pati	6	4	8	4	5	27
21	Purwokerto	5	3	8	4	6	26
22	Surakarta	10	5	8	9	9	41
23	Magelang	5	0	7	3	5	20
24	Yogyakarta	9	4	11	8	10	42
25	Surabaya	8	7	11	14	8	48
26	Jember	4	3	5	6	11	29
27	Malang	11	6	6	5	13	41
28	Madiun	4	2	6	6	5	23
29	Kediri	4	3	5	4	5	21
30	Bojonegoro	4	0	6	2	2	14
31	Pontianak	5	2	4	6	9	26
32	Singkawang	1	2	4	1	4	12
33	Palangkaraya	3	7	3	1	7	21
34	Banjarmasin	5	3	5	4	7	24
35	Samarinda	2	6	5	8	8	29
36	Manado	3	3	5	3	4	18
37	Palu	5	7	4	2	9	27
38	U.Pandang	7	10	3	5	13	38
39	Kendari	3	1	7	4	12	27
40	Dempasar	7	4	5	3	10	29
41	Mataram	6	7	4	4	7	28
42	Kupang	2	3	5	3	10	23
43	Ambon	3	2	4	4	5	18
44	Terbate	1	1	4	2	0	8
45	Jaya Pura	2	2	5	2	7	18
46	Sorong	1	1	5	0	0	7
47	Dili	1	1	6	2	1	11
Total 1 (ALL)		274	172	280	254	436	1,416
Total 2 (BRA>)		243	170	276	228	349	1,266

1992 Staff

No.	Branch Name	Insp.	Adj. Insp.	Metr. Pol.	Techn. Assist.	Admin. & Others	TOTAL
0	DOM	31	1	8	24	83	147
1	Banda Aceh	7	4	2	2	7	22
2	Langsa	1	2	4	1	0	8
3	Medan	11	4	6	10	17	48
4	P.Siantar	6	7	3	5	7	28
5	Padang	6	4	6	5	7	28
6	Pekanbaru	8	3	5	10	8	34
7	Jambi	7	4	3	2	5	21
8	Palembang	5	3	7	5	7	27
9	Lampung	7	3	8	8	5	31
10	Bengkulu	4	5	5	3	4	21
11	Jakarta	15	2	9	13	16	55
12	Bandung	7	4	8	8	14	41
13	Serang	6	3	7	3	4	23
14	Purwakarta	4	4	6	2	3	19
15	Bogor	7	4	5	8	6	30
16	Tasikmalaya	6	4	4	9	8	31
17	Cirebon	8	4	5	2	7	26
18	Semarang	17	3	6	9	18	53
19	Tegal	6	3	5	4	7	25
20	Pati	7	4	7	3	5	26
21	Purwokerto	4	4	8	4	5	25
22	Surakarta	13	3	7	9	8	40
23	Magelang	5	2	5	3	5	20
24	Yogyakarta	10	4	10	8	9	41
25	Surabaya	11	3	10	14	8	46
26	Jember	6	2	3	6	12	29
27	Malang	13	4	5	5	13	40
28	Madiun	4	3	5	6	5	23
29	Kediri	4	4	4	4	5	21
30	Bojonegoro	4	1	5	3	3	16
31	Pontianak	5	4	5	5	9	28
32	Singkawang	2	3	2	1	4	12
33	Palangkaraya	5	6	3	1	4	19
34	Banjarmasin	5	4	6	2	5	22
35	Samarinda	4	5	6	8	6	29
36	Manado	5	1	7	3	4	20
37	Palu	6	7	3	3	9	28
38	U.Pandang	9	9	4	4	13	39
39	Kendari	4	1	7	3	12	27
40	Dempasar	8	4	4	6	10	32
41	Mataram	7	7	3	4	7	28
42	Kupang	3	2	5	2	6	18
43	Ambon	3	3	4	3	6	19
44	Temate	1	2	3	2	0	8
45	Jaya Pura	4	2	4	2	7	19
46	Sorong	1	2	4	1	0	8
47	Dili	1	2	5	3	1	12
Total 1 (ALL)		323	169	256	251	414	1,413
Total 2 (BRA>)		292	168	248	227	331	1,266

## 1993 Staff

No.	Branch Name	Insp.	Adj. Insp.	Metr. Pol.	Techn. Assist.	Admin. & Others	TOTAL
0	DOM	32	2	1	22	87	144
1	Banda Aceh	6	3	3	2	6	20
2	Langsa	2	2	4	1	0	9
3	Medan	12	5	5	9	17	48
4	P.Siantar	10	3	4	4	7	28
5	Padang	5	4	7	4	7	27
6	Pekanbaru	8	4	5	10	10	37
7	Jambi	8	3	2	2	5	20
8	Palembang	7	5	3	5	7	27
9	Lampung	9	4	8	7	5	33
10	Bengkulu	6	4	4	3	4	21
11	Jakarta	17	3	10	12	23	65
12	Bandung	9	5	7	8	14	43
13	Serang	7	4	6	3	4	24
14	Purwakarta	5	3	8	4	3	23
15	Bogor	7	7	3	7	5	29
16	Tasikmalaya	8	4	4	9	7	32
17	Cirebon	8	5	5	2	7	27
18	Semarang	15	3	8	8	18	52
19	Tegal	7	2	7	2	7	25
20	Pati	7	4	7	3	5	26
21	Purwokerto	8	3	8	3	5	27
22	Surakarta	14	2	8	8	9	41
23	Magelang	5	2	6	3	6	22
24	Yogyakarta	13	9	3	7	9	41
25	Surabaya	13	3	10	15	8	49
26	Jember	5	3	3	5	12	28
27	Malang	13	3	6	5	12	39
28	Madiun	5	2	4	6	5	22
29	Kediri	4	3	4	4	5	20
30	Bojonegoro	4	1	7	3	4	19
31	Pontianak	5	7	2	5	9	28
32	Singkawang	3	1	2	1	4	11
33	Palangkaraya	8	3	2	1	4	18
34	Banjarmasin	5	6	4	2	6	23
35	Samarinda	6	4	6	7	6	29
36	Manado	6	2	5	3	5	21
37	Palu	10	3	3	3	9	28
38	U.Pandang	16	2	4	3	15	40
39	Kendari	4	1	8	3	12	28
40	Dempasar	9	7	1	5	9	31
41	Mataram	9	4	3	4	7	27
42	Kupang	4	4	2	3	6	19
43	Ambon	2	4	1	3	7	17
44	Ternate	1	2	3	2	0	8
45	Jaya Pura	3	3	3	3	6	18
46	Sorong	2	1	6	0	1	10
47	Dili	2	2	6	1	1	12
	Total 1 (ALL)	374	166	231	235	430	1,436
	Total 2 (BRA>)	342	164	230	213	343	1,292





# LIST OF MEASURING EQUIPMENT

1 - 2

BRANCH LOCATION : BANDA ACEH  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
3	-Water Meter Test Bench -Take Meter Instalation Volume Standard -Vessels -Prover Tank	..... 1 set ..... 1 set 5 l , 10 l , 20 l , 50 l , 100 l , 200 l , 500 l and 1000 l ..... 1 set 5 ml - 1000ml (9 Cass) ..... 1 set 5 l , w l , 200 l ..... 2 sets		A B A C A
4	Length Standard -3 <sup>th</sup> class meter Standard -Compare for -Bourge Box -Measuring Stick OthersA	..... 1 set ..... 1 set ..... 1 set ..... 1 set		C B A A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

2-1

BRANCH LOCATION : LANGSA  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> class Weight Standard -F <sub>1</sub> class Weight Standard -3 <sup>th</sup> class Weight Standard -Working Standard of Weight  -Precision Equal Arms Balance -C class -D class -E class  -Equal Arms Balance for Veri- cation of Weights -A class -B class -C class -D class -E class	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg - 20 kg ..... 2 sets 25 kg ..... 3 tons 3 piece of 25 kg ..... 4 tons 2 piece of 10 kg ..... 4 tons 5 kg ..... 4 tons 10 kg ..... 1 set  1kg ..... 1 set 50 g ..... 1 set 1000 mg ..... 1 set  75 kg ..... 1 set 10 kg ..... 2 sets 1 kg ..... 1 set 50 g ..... 1 set 1000 mg ..... 1 set		C C C A A A A A A  B B B  A A A A A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

2 - 2

BRANCH LOCATION : LANGSA  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME STANDARD  -Lanometer -Thermometer -Manometer -(gels taleor) -Dcusimeter	500 l , 200 l ..... 1 set 20 l ..... 3 sets 10 l ..... 2 sets 5 l ..... 1 set ..... 1 set ..... 2 sets ..... 1 set 5 ml - 1000ml ..... 9 sets ..... 1 set		A A A A C B C C C
3	FRON STANDARD -Electrical Meter Calibration -Portable Elect-Sub-Std Ieter	..... 1 set ..... 1 set		B C
4	LENGTH STANDARD -3 th class Meter Standard -Working Meter Standard -Estimation Stick -Measure Crossing Meter (Longkat Uleur) -Mierometer	..... 1 set ..... 2 sets ..... 1 set ..... 1 set ..... 1 set		C A A A C
5	OTHER -	0.1 second .....		C

\* Note A : Usually, B : Often, C : Sometimes

## LIST OF FACIRITY &amp; EQUIPMENT

DATE:

Lab. name

[ ]

	Facirity and equipment name	Specification	Remarks
1.	Length / Van Becker	0 - 100 cm (No.2988)	
2.	Mass / Weight class F1	1 mg to 1000 g	
3.	Mass / Weight class E2	1 mg to 1000 g	
4.	Balance (2 unit)	Becker Delt NV 1000 mg	
5.	Balance (1 unit)	NV julian H Becker 50 g	
6.	Balance (1 unit)	NV julian H Becker 100 g	
7.	Balance (3 unit)	NV julian H Becker 10 kg	
8.	Balance (2 unit)	NV julian H Becker 75 kg	
9.	Mass / Density meter	cap. O1600 - 2000 g / ml	
10.	Mass / Hardnes tester (2unit)	Shinadzu & Ames HR	
11.	Volume (8 unit)	5 ℓ ; 10 ℓ ; 20 ℓ ; 50 ℓ ; 100 ℓ ; 200 ℓ ; 500 ℓ ; 1000 ℓ	
12.	Electronic thermoboth	Scott ct 1150, cap 0 - 200°C	
13.	Thermometers	Lauda H00053, cap 100°C	
14.	Electricity meter	Laudis & Gyr 2001	
15.	Electricity meter	Metrotec Schlumberger B932482	
16.	Water meters	L Fuido LF - 2 No. 91 - 001A & 91 - 001 B	
17.	Taki meters	L Fuido rolltester LF - HR No. 910001	

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PEMATANG SIANTAR  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -3 <sup>th</sup> class Mass Standard -E <sub>2</sub> class Mass Standard -F <sub>1</sub> class Mass Standard -Working Mass Standard	1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 2 sets 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 2 sets 25 kg (Iron) ..... 6 sets 3 pieces of 25 kg ..... 6 sets 2 pieces of 10 kg ..... 4 sets 1 a <sup>1</sup> 5 kg ..... 2 sets 2 a <sup>1</sup> 10 kg ..... 2 sets		B A A A A A A A A A
	-Reference of Class -Hydrostatic Balance -Hardness Tester Block -Precision Balance	..... 1 set ..... 1 set ..... 1 set C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 1 set B class 10 kg ..... 2 sets C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... 1 set		B C A B B B B B A A A
	-Verification Balance			A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

4 - 2

BRANCH LOCATION : PEMATANG SIANTAR  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME STANDARD - Volume Standard of Glass - Vessels	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l, 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 1 set		C A
3	FLOW STANDARD - Electrical Meter Calibration / Landys & Gyr - Portable Electrical Sub Standard Meter / Metrotee	..... 1 set ..... 1 set		A B
4	LENGTH STANDARD - 3th class Length Standard - Working Length Standard - Comparator - Stick for Measuring - Micrometer - Bourye Box	..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 2 sets		B A A A B A
5	OTHERS - Thermometer - Psychrometer - Memometer - Cury Barometer - Stop Watch	0° - 100° C, Scale 0.1°C ..... 2 sets ..... 1 set ..... 1 set ..... 1 set 0.1° Second ..... 1 set 0.01 Second ..... 1 set		B C C C B B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PADANG  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -Contra Standard of Mass -Working Mass Standard -Reference of Mass -Precision Equal Arms Balance  -Equal Arms Balance for Verifi- cation of Mass  -Hydrostatic Balance -Hardness Tester Block	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg ..... 7 sets 1 kg - 10 kg (Brass) ..... 12 sets 1 g - 1 kg (Verchroom) ..... 3 sets 1 mg - 1000 mg (Aluminium) ..... 6 sets 1 kg - 20 kg (Iron) ..... 20 sets 25 kg - (Iron) ..... 3 sets 3 pieces of 25 kg ..... 3 sets 2 pieces of 10 kg ..... 3 sets 1 a' 5 kg ..... 3 sets 2 a' 10 kg ..... 3 sets  ..... 1 set C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 2 sets  A class 75 kg ..... 1 set B class 10 kg ..... 5 sets C class 1 kg ..... 4 sets D class 50 g ..... 4 sets E class 1000 g .....  ..... 1 set ..... 3 sets		C C C C A A A A A A A A B B B B  A A A A - B B

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

5-2

BRANCH LOCATION : PADANG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW -Electrical Meter Calibration -Portable Electrical Sub Standard Meter	..... 1 set ..... 1 set		B C
3	VOLUME STANDARD -Vessels	5 l , 20 l , 50 l ..... 1 set		A
4	LENGTH STANDARD -3 <sup>rd</sup> Class Length Standard -Working Length Standard -Comparator -Bourye Box -Working Length Standard 20 m	..... 1 set ..... 2 sets ..... 1 set ..... 3 sets ..... 1 set		C A B A A
5	OTHERS -Thermometer -Psychrometer -Stop Watch	..... 1 set ..... 1 set 0.1 second ..... 1 set		B C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

6-1

BRANCH LOCATION : PEKANBARU  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -3 <sup>th</sup> Class Mass Standard -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -2 <sup>nd</sup> Class Contra Standard of Mass -Working Mass Standard	1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 1000 mg (Stainless Steel) ..... 1 set 1 kg - 10 kg (Brass) ..... 10 sets 1 g - 1 kg (Verchroom) ..... 4 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 20 sets 25 kg (Iron) ..... 7 tons 3 pieces of 25 kg ..... 10 sets 2 pieces of 10 kg ..... 10 sets 1 a' 5 kg ..... 5 sets 2 a' 10 kg ..... 2 sets C class 1 kg ..... 1 set D class 50 g ..... 2 sets E class 1000 mg ..... 2 sets A class 75 kg ..... 1 set B class 10 kg ..... 3 sets C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... 1 set ..... 1 set ..... 1 set		C C C C C A A A A A A A A B B B A A A A A B B
	-Precision Balance -Verification Balance -Reference of Mass -Moisture Defermination Balance			

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

6-2

BRANCH LOCATION : PEKANBARU  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW STANDARD -Electrical Meter Calibration / Precetes -Portable Electrical Sub Standard Meter -Hydrocarbon 150 m <sup>3</sup>	..... 1 set ..... 1 set ..... 1 set		B C B
3	VOLUME STANDARD -Volume Standard of Glass -Vessels	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l, 50 l, 100 l, 200 l, 500 l 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 3 sets		B A A
4	LENGTH STANDARD -3th Class Length Standard -Working Length Standard (Meter Bar) -Working Length Standard -Comparator -Bourye Box -Stick for Measuring -Micrometer	..... 1 set ..... 2 sets 20 m ..... 1 set ..... 1 set ..... 2 sets ..... 2 sets ..... 1 set		B A B A A A A
5	OTHERS -Thermometer -Psychrometer -Manometer -Stop Watch	0° - 100 °C, Scale 0.1°C ..... 2 sets ..... 1 set ..... 1 set 0.1 second ..... 1 set 0.01 second ..... 1 set		B C C B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

7-1

BRANCH LOCATION : JAMBI

ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<p><b>MASS &amp; BALANCE</b></p> <ul style="list-style-type: none"> <li>- 3<sup>rd</sup> Class Mass Standard</li> <li>- E<sub>2</sub> Class Mass Standard</li> <li>- F<sub>1</sub> Class Mass Standard</li> <li>- Working Mass Standard</li> </ul> <p>- Reference of Mass</p> <p>- Precision Balance</p> <p>- Verification Balance</p> <p>- Moisture Determination Balance</p> <p>- Hydrostatic Balance</p> <p>- Hardness Tester Block</p>	<ul style="list-style-type: none"> <li>1 kg ..... 1 set</li> <li>1 mg - 1 kg ..... 1 set</li> <li>1 mg - 1 kg ..... 1 set</li> <li>1 kg - 10 kg (Brass) ..... 1 set</li> <li>1 g - 1 kg (Verchroom) ..... 1 set</li> <li>1 mg - 1000 mg (Aluminium) ..... 1 set</li> <li>1 kg - 20 kg (Iron) ..... 1 set</li> <li>25 kg (Iron) ..... 6 tons</li> <li>3 pieces of 25 kg ..... 2 sets</li> <li>2 pieces of 10 kg ..... 2 sets</li> <li>1 a' 5 kg ..... 2 sets</li> <li>2 a' 10 kg ..... 2 sets</li> <li>..... 1 set</li> <li>C class 1 kg ..... 1 set</li> <li>D class 50 g ..... 1 set</li> <li>E class 1000 mg ..... 1 set</li> <li>A class 75 kg ..... 1 set</li> <li>B class 10 kg ..... 2 sets</li> <li>C class 1 kg ..... 2 sets</li> <li>D class 50 g ..... 2 sets</li> <li>E class 1000 mg ..... 1 set</li> <li>..... 1 set</li> <li>..... 1 set</li> <li>..... 1 set</li> <li>..... 1 set</li> </ul>		<ul style="list-style-type: none"> <li>C</li> <li>C</li> <li>C</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>C</li> <li>B</li> <li>B</li> <li>B</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>B</li> <li>C</li> <li>B</li> </ul>

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : JAMBI  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME STANDARD - Volume Standard of Glass - Vessels	5 ml - 1000 ml ..... 1 set 5 l , 10 l , 20 l , 50 l , 100 l , 200 l 500 l , 1000 l ..... 1 set 5 l , 10 l , 20 l ..... 1 set		C A A
3	FLOW STANDARD - Electrical Meter Calibration / Precetes - Electrical Sub Standard Meter / Metrofee	..... 1 set ..... 1 set		B C
4	LENGTH STANDARD - 3th Class Length Standard - Working Length Standard - Comparator - Stick for Measuring - Micrometer	..... 1 set ..... 1 set ..... 2 sets ..... 1 set ..... 1 set		B A B A A
5	OTHERS - Thermometer - Psychrometer - Mercury Barometer - Manometer - Densimeter	0° - 100 °C, Scale 0.1 °C ..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 1 set		B C C C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

8-1

BRANCH LOCATION : PALEMBANG  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -3 <sup>th</sup> Class Mass Standard -2 <sup>nd</sup> Class Contra Standard of Mass -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -Working Mass Standard  -Hardness Tester Block -Precision Balance  -Verification Balance	1 kg ..... 1 set 1 g - 1 kg ..... 2 sets 1 mg - 1000 mg ..... 2 sets 1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 2 sets 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 5 sets 25 kg (Iron) ..... 6 tons 3 pieces of 25 kg ..... 3 sets 2 pieces of 10 kg ..... 2 sets 1 a' 5 kg ..... 2 sets 2 a' 10 kg ..... 2 sets ..... 1 set C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... 1 set A class 75 kg ..... 1 set B class 10 kg ..... 2 sets C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... 2 sets		B B B B B A A A A A A A A B B B B B A A A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

8-2

BRANCH LOCATION : PALEMBANG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME STANDARD - Volume Standard of Glass - Vessels	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l, 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 2 sets		B A A
3	FLOW STANDARD - Electrical Sub Standard Meter / Metrofee - Portable Master Meter / Satam	..... 1 set ..... 1 set		C B
4	LENGTH STANDARD - 3 <sup>rd</sup> Class Length Standard - Working Length Standard - Comparator - Bourye Box - Stuck for Measuring - Micrometer	..... 1 set ..... 1 set ..... 2 sets ..... 1 set ..... 1 set ..... 1 set		B B A B A B
5	OTHERS - Thermometer - Psychrometer - Stop Watch  - Manometer - Densimeter	0° - 100 °C, Scale 0.1 °C ..... 1 set ..... 1 set 0.1 second ..... 1 set 0.01 second ..... 1 set ..... 1 set ..... 1 set		B C C C C B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : BANDAR LAMPUNG  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS AND BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 3 sets 1 kg - 20 kg (Iron) ..... 2 sets 25 kg (Iron) ..... 3.8 ton 3 pieces of 25 kg ..... 1 set 2 pieces of 10 kg ..... 1 set 5 kg ..... 1 set 10 kg ..... 1 set E class 1000 mg ..... 2 sets A class 75 kg ..... 1 set B class 10 kg ..... 1 set C class 1 kg ..... 1 set ..... 2 sets		C C C A A A A A A B A A A B B
2	-Precision Equal Arms Balance -Equal Arms Balance for Verifi- cation of Mass -Hydrostatic Balance -Hardness Tester Block	..... 1 set ..... 1 set ..... 1 set ..... 2 sets		B C
3	FLOW STANDARD -Electrical Meter Calibration -Portable Electrical Sub Standard Meter VOLUME STANDARD -Volume Standard of Glass -Vessels	..... 1 set ..... 1 set ..... 1 set 5 ml - 1000ml ..... 1 set 5 l, 10 l, 20 l, 50 l and 1000 l ..... 1 set 10 l, 20 l and 1000 l ..... 1 set		B C C A A

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

9-2

BRANCH LOCATION : BANDAR LAMPUNG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
4	LENGTH STANDARD -Working Length Standard -Comparator	..... 1 set ..... 1 set		A B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : BENGKULU  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<p>MASS &amp; BALANCE</p> <ul style="list-style-type: none"> <li>-E<sub>2</sub> Class Mass Standard</li> <li>-F<sub>1</sub> Class Mass Standard</li> <li>-3<sup>rd</sup> Class Mass Standard</li> <li>-Contra Standard of Mass</li> <li>-Working Mass Standard</li> </ul> <p>-Reference of Mass</p> <ul style="list-style-type: none"> <li>-Precision Equal Arms Balance</li> </ul> <p>-Equal Arms Balance for Verification of Mass</p> <ul style="list-style-type: none"> <li>-Hardness Tester Block</li> </ul>	<ul style="list-style-type: none"> <li>1 mg - 1 kg ..... 1 set</li> <li>1 mg - 1 kg ..... 1 set</li> <li>1 kg ..... 1 set</li> <li>1 g - 1 kg (Verchroom) ..... 1 set</li> <li>1 mg - 1 g (Stainless Steel) ..... 1 set</li> <li>1 kg - 10 kg (Brass) ..... 2 sets</li> <li>1 g - 1 kg (Verchroom) ..... 2 sets</li> <li>1 mg - 1000 mg (Aluminium) ..... 2 sets</li> <li>1 kg - 20 kg (Iron) ..... 2 sets</li> <li>25 kg (Iron) ..... 3 tons</li> <li>3 pieces of 25 kg ..... 2 sets</li> <li>2 pieces of 10 kg ..... 2 sets</li> <li>1 a' 5 kg ..... 2 sets</li> <li>2 a' 10 kg ..... 2 sets</li> <li>..... -</li> <li>C class 1 kg ..... -</li> <li>D class 50 g ..... -</li> <li>E class 1000 mg ..... -</li> <li>A class 75 kg ..... 1 set</li> <li>B class 10 kg ..... 1 set</li> <li>C class 1 kg ..... 2 sets</li> <li>D class 50 g ..... 2 sets</li> <li>E class 1000 mg ..... -</li> <li>..... 3 sets</li> </ul>		<ul style="list-style-type: none"> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>-</li> <li>-</li> <li>-</li> <li>-</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>-</li> <li>B</li> </ul>

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

10-2

BRANCH LOCATION : BENGKULU  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Water Meter Test Bench	..... 1 set ..... 1 set ..... 1 set		B C A
3	<b>VOLUME STANDARD</b> -Volume Standard of Glass -Vessels	5 ml - 1000 ml ..... 2 sets 5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l, 1000 l ..... 1 set 10 l, 20 l, 50 l, 100 l ..... 1 set		C
4	<b>LENGTH STANDARD</b> -3 <sup>rd</sup> Class Length Standard -Working Length Standard -Working Length Standard 20 m -Micrometer -Comparator -Bourye Box	..... 1 set ..... 2 sets ..... 1 set ..... 2 sets ..... 1 set ..... 2 sets		C A A C B A
5	<b>OTHERS</b> -Thermometer -Barometer -Stop Watch -Manometer -Densimeter	0° - 100°C, Scale 0.1°C ..... 1 set ..... 1 set 0.1 second ..... 1 set 0.01 second ..... 2 sets ..... 1 set ..... 1 set		B C C C C C

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : BANDUNG (REGION OFFICE)  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -3 <sup>rd</sup> Class Mass Standard -2 <sup>nd</sup> Class Contra Standard of Mass  -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -Working Mass Standard  -Reference of Mass -Precision Balance -Verification Balance  -Hardness Tester Block	1 kg ..... 1 set 1 g - 1 kg ..... 3 sets 1 mg - 1000 mg ..... 4 sets  1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 20 sets 1 g - 1 kg (Verchroom) ..... 4 sets 1 mg - 1000 mg (Aluminium) ..... 3 sets 1 kg - 20 kg (Iron) ..... 50 sets 25 kg - (Iron) ..... 7 tons 3 pieces of 25 kg ..... 4 sets 2 pieces of 10 kg ..... 4 sets 1 a' 5 kg 4 ..... 4 sets 2 a' 10 kg ..... 3 sets ..... 1 set C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... 2 sets A class 75 kg ..... 2 sets B class 10 kg ..... 4 sets C class 1 kg ..... 6 sets D class 50 g ..... 5 sets E class 1000 mg ..... 2 sets ..... 1 set		C C C  C C A A A A A A B B B B B B A A A B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : BANDUNG (BRANCH OFFICE)  
 ITEM OF MEASURING INSTRUMENT

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW STANDARD -Electrical Meter Calibration / Precetest -Electrical Sub Standard Meter / Metrofee -Master Meter -Roll Tester	..... 1 set ..... 1 set ..... 1 set ..... 1 set		B C B B
3	VOLUME STANDARD -Volume Standard of Glass -Vessels	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l, 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 2 sets		C A A
4	LENGTH STANDARD -3 <sup>rd</sup> Class Length Standard -Working Length Standard (Meter Bar) -Working Length Standard -Comparator -Bourye Box -Micrometer -Stick for Measuring	..... 1 set ..... 3 sets  20 m ..... 1 set ..... 2 sets ..... 2 sets ..... 1 set ..... 2 sets		B B  B B B B A
5	OTHERS -Thermometer	0° - 100 °C, Scale 0.1 °C ..... 3 sets		B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : BANDUN (BRANCH OFFICE)  
 ITEM OF MEASURING INSTRUMENT

Page : 3

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
	-Psychrometer -Densimeter -Mercury Barometer -Stop Watch -Manometer	..... 1 set ..... 1 set ..... 1 set ..... 1 set 0.1 second ..... 1 set 0.01 second ..... 1 set ..... 1 set		C C C C C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

13 - 1

BRANCH LOCATION : SERANG

ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -3 <sup>rd</sup> Class Mass of Contra Standard -Working Standard of Weights	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 1 g (Stainless Steel) ..... 1 set 1 kg - 10 kg (Brass) ..... 10 sets 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 1000 mg (Aluminium) ..... 1 set 1 kg - 20 kg (Iron) ..... 2 sets 25 kg (Iron) ..... 8 tons 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 5 kg ..... 2 sets 10 kg ..... 2 sets E class 1000 mg ..... 1 set A class 75 kg ..... 2 sets B class 10 kg ..... 2 sets C class 1 kg ..... 3 sets D class 50 mg ..... 2 sets E class 1000 mg ..... 1 set 1 kg ..... 1 set ..... 3 sets ..... 1 set ..... 1 set ..... 1 set		C C C C C A A A A A A A A B A A A A A C B B B B
	-Precision Equal Arms Balance -Equal Arms Balance for Verification of Weight			
	-Hydrostatic Balance -Hardness Tester Block -Micro Balance (Sartorius) -Analysis Balance (Sartorius) -Precision Balance			

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : SERANG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Electrical Meter Sub Standard Meter -Master Meter	..... 1 set ..... 1 set ..... 1 set		B C B
3	<b>VOLUME STANDARD</b> -Vessels -Can (Glass)	5 l , 10 l , 20 l , 50 l , 100 l , 200 l 500 l and 1000 l ..... 1 set 5 ml - 1000 ml (Glass) ..... 14 sets		A -
4	<b>LENGTH STANDARD</b> -3th Class Meter Standard -Working Meter Standard -Comparator -Bourye Box -Measuring Stick	..... 1 set ..... 1 set ..... 2 sets ..... 2 sets ..... 1 set		C B B A A
5	<b>OTHERS</b> -Thermometer -Stop Watch -Manometer	..... 1 set 0.01 second ..... 1 set ..... 1 set		B C C

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

14-1

BRANCH LOCATION : PURWAKARTA  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -2 <sup>nd</sup> Class Contra Standard of Mass -Working Standard of Mass	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg (Verchroom) ..... 2 sets  1 kg - 20 kg (Brass) ..... 2 sets 1 g - 1 kg (Verchroom) ..... 4 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 3 sets 25 kg - (Iron) ..... 5 tons 3 pieces of 25 kg ..... 6 sets 2 pieces of 10 kg ..... 2 sets 1 a' 5 kg ..... 2 sets 2 a' 10 kg ..... 2 sets  C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set  A class 75 kg ..... 1 set B class 10 kg ..... 3 sets C class 1 kg ..... 2 sets D class 50 g ..... 1 set E class 1000 mg ..... -		C C C C  A A A A A A A A A A B B B A A A A -
2	<b>FLOW STANDARD</b> -Portable Electrical Sub Standard Meter	..... 1 set		B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

14-2

BRANCH LOCATION : PURWAKARTA  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
3	<b>VOLUME STANDARD</b> - Volume Standard of Glass - Vessels	..... 1 set 5 ml - 2000 ml ..... 1 set 5 l, 10 l, 20 l ..... 2 sets 50 l, 100 l, 200 l, 500 l, 1000 l ..... 1 set		C C A A
4	<b>LENGTH STANDARD</b> - Working Length Standard - Comparator - Bourye Box - Micrometer - Stuck for Measuring - Deep Tape 5 m	..... 2 sets ..... 1 set ..... 2 sets ..... 1 set ..... 2 sets ..... 1 set		A B A C A B
5	<b>OTHERS</b> - Thermometer - Mercury Barometer - Manometer - Densimeter	..... ..... 1 set ..... 1 set ..... 24 sets		- C C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

15-1

BRANCH LOCATION : BOGOR

ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -2 <sup>nd</sup> Class Mass Standard Contra -Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg ..... 2 sets 1 mg - 1000 mg ..... 1 set 1 kg - 10 kg (Brass) ..... 2 sets 1 g - 1 kg (Vechroom) ..... 3 sets 1 mg - 1000 mg (Aluminium) ..... 1 set 1 kg - 10 kg (Iron) ..... 2 sets 25 kg - (Iron) ..... 6 tons 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 1 a' 5 kg ..... 2 sets 2 a' 10 kg ..... 2 sets C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 1 set B class 10 kg ..... 2 sets C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... 2 sets 500 g ..... 1 set ..... 1 set ..... 1 set		C C C C C A A A A A A A B B B A A A A A B A B
	-Precision Balance			
	-Verification Balance			
	-Hydrostatic Balance			
	-Hardness Tester Block			
	-Moisture Determination Balance			

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : BOGOR  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME STANDARD -Vessels	5 l, 10 l, 20 l, 50 l, 100 l, 200 l, 500 l, 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 2 sets		A A
3	FLOW STANDARD -Electrical Meter Calibration / Etalugie -Portable Electrical Sub Standard Meter / Metrofee	..... 1 set ..... 1 set		B C
4	LENGTH STANDARD -3 <sup>th</sup> Class Length Standard -Working Length Standard -Comparator -Bourye Box -Stick for Measuring -Micrometer	..... 1 set ..... 1 set ..... 2 sets ..... 2 sets ..... 1 set ..... 1 set		B A A A A A
5	OTHERS -Thermometer -Psychrometer -Mercury Barometer -Stop Watch -Manometer -Densimeter	0° - 100 °C, Scale 0.1 °C ..... 2 sets ..... 1 set ..... 1 set 0.1 second ..... 2 sets 0.01 second ..... 1 set ..... 1 set ..... 1 set		B C C B B C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

16-1

BRANCH LOCATION : TASIKMALAYA  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -2 <sup>nd</sup> Class Contra Standard of Mass -Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg ..... 4 sets 1 mg - 1000 mg ..... 1 set 1 kg - 10 kg (Brass) ..... 1 set 1 g - 1 kg (Verchroom) ..... 4 sets 1 mg - 1000 mg (Aluminium) ..... 1 set 1 kg - 20 kg (Iron) ..... 2 sets 25 kg (Iron) ..... 6,250 tons 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 1 a' 5 kg ..... 2 sets 2 a' 10 kg ..... - C class 1 kg ..... - D class 50 g ..... - E class 1000 mg ..... - A class 75 kg ..... 2 sets B class 10 kg ..... 3 sets C class 1 kg ..... 4 sets D class 50 g ..... 2 sets ..... 2 sets ..... -		C C C C C A A A A A A A A - B B B A A A A A -
	-Precision Balance  -Verification Balance  -Hardness Tester Block -Moisture Determination Balance			

\* Note : A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : TASIKMALAYA  
ITEM OF MEASURING INSTRUMENT

Page : 3

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME STANDARD - Vessel	100 l , 200 l , 500 l , 1000 l ..... 1 set 5 l ..... 2 sets 10 l ..... 3 sets 20 l ..... 4 sets 50 l ..... 2 sets		A A A A A
3	LENGTH STANDARD - 3 <sup>th</sup> Class Length Standard - Working Length Standard - Comparator - Bourye Box - Stick for Measuring - Micrometer	..... 1 set ..... 1 set ..... 2 sets ..... 3 sets ..... 1 set ..... 1 set		B A A A A A
5	OTHERS - Thermometer - Psychrometer - Mercury Barometer - Stop Watch - Manometer - Densimeter	0 ° - 100 °C, Scale 0.1 °C ..... 2 sets ..... 1 set ..... 1 set 0.1 second ..... 2 sets 0.01 second ..... 1 set ..... 1 set ..... 1 set		B B B B B B B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

17-1

BRANCH LOCATION : CIREBON  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<p>MASS &amp; BALANCE</p> <ul style="list-style-type: none"> <li>-3<sup>th</sup> Class Mass Standard</li> <li>-3<sup>th</sup> Class Contra Standard of Mass</li> <li>-E<sub>2</sub> Class Mass Standard</li> <li>-F<sub>1</sub> Class Mass Standard</li> <li>-Working Mass Standard</li> </ul> <p style="margin-top: 20px;">-Precision Balance</p> <p style="margin-top: 20px;">-Verification Balance</p>	<p>1 kg ..... 1 set</p> <p>1 g - 1 kg (Verchroom) ..... 1 set</p> <p>1 mg - 1000 mg (Stainless Steel) ..... 1 set</p> <p>1 mg - 1 kg ..... 1 set</p> <p>1 mg - 1 kg ..... 1 set</p> <p>1 kg - 10 kg (Brass) ..... 13 sets</p> <p>1 g - 1 kg (Verchroom) ..... 4 sets</p> <p>1 mg - 1000 mg (Aluminium) ..... -</p> <p>1 kg - 20 kg (Iron) ..... 33 sets</p> <p>25 kg (Iron) ..... 6.0 tons</p> <p>3 pieces of 25 kg ..... 12 sets</p> <p>2 pieces of 10 kg ..... 12 sets</p> <p>1 a' 5 kg ..... 4 sets</p> <p>2 a' 10 kg ..... -</p> <p>C class 1 kg ..... 1 set</p> <p>D class 50 g ..... 1 set</p> <p>E class 1000 mg ..... 2 sets</p> <p>A class 75 kg ..... 1 set</p> <p>B class 10 kg ..... 3 sets</p> <p>C class 1 kg ..... 2 sets</p> <p>D class 50 g ..... 2 sets</p> <p>E class 1000 mg ..... -</p>		<p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>A</p> <p>A</p> <p>-</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>B</p> <p>B</p> <p>B</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>-</p>

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : CIREBON  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Portable Master Meter -Water Meter Test Bench	..... 1 set ..... 1 set ..... 1 set ..... 1 set		B C B A
3	<b>VOLUME STANDARD</b> -Volume Standard of Glass Vessel 5 ml - 1000 ml ..... 1 set (7) 10 l ..... 2 sets 20 l ..... 1 set 100 l ..... 1 set 200 l ..... 2 sets 300 l ..... 1 set 1000 l ..... 2 sets			C A A A A A A
4	<b>LENGTH STANDARD</b> -3 <sup>rd</sup> Class Length Standard -Bourye Box -Stick for Measuring -Micrometer	..... 1 set ..... 1 set ..... 1 set ..... 1 set		B A A A
5	<b>OTHERS</b> -Thermometer -Stop Watch	..... 3 sets 0.1 second ..... 1 set		B B

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

18-1

BRANCH LOCATION : SEMARANG  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -3 <sup>th</sup> Class Mass Standard -2 <sup>nd</sup> Class Contra Standard of Mass -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -Working Mass Standard	1 kg ..... 1 set 1 g - 1 kg ..... 5 sets 1 mg - 1000 mg ..... 6 sets 1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg - 10 kg ..... 25 sets 1 g - 1 kg ..... 5 sets 1 mg - 1000 mg ..... 4 sets 1 kg - 20 kg ..... 60 sets 25 kg ..... 8 tons 3 pieces of 25 kg ..... 4 sets 2 pieces of 10 kg ..... 4 sets 1 a' 5 kg ..... 4 sets 2 a' 10 kg ..... 4 sets ..... 1 set ..... 1 set ..... 1 set ..... 1 set		C C C B B A A A A A A B B B B C C A A
2	<b>VOLUME STANDARD</b> -Volume Standard of Glass Vessel -Volumetric Test Gauge	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l, 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 3 sets ..... 1 set		B A A A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

18-2

BRANCH LOCATION : SEMARANG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
3	<b>FLOW STANDARD</b> -Electrical Meter Calibration / Lamdys & Gyr -Portable Electrical Sub Standard Meter / Metrofee -Portable Master Meter -Hydrocarbon 150 m <sup>3</sup>	..... 1 set ..... 1 set ..... 1 set ..... 1 set		B C B B
4	<b>LENGTH STANDARD</b> -3 <sup>th</sup> Length Standard -Working Length Standard (Meter Bar) -Comparator -Bourye Box -Micrometer -Stick for Measuring -Working Length Standard 20 m	..... 1 set ..... 3 sets ..... 1 set ..... 3 sets ..... 2 sets ..... 2 sets ..... 1 set		B A B B A A C
5	<b>OTHERS</b> -Thermometer -Psychrometer -Mercury Barometer -Stop Watch	..... 5 sets ..... 1 set ..... 1 set ..... 1 set 0.1 second ..... 1 set 0.01 second ..... 1 set		C C B B B

\* Note A : Usually, B : Often, C : Sometimes



LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : TEGAL  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
	-Mechanical Micro Balance -Mechanical Precision Balance -Hardness Tester	..... 1 set ..... 1 set ..... 1 set		A A B
2	FLOW STANDARD -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Master Meter (Portable)	..... 1 set ..... 1 set		B C
3	VOLUME STANDARD - Volume Standard of Glass -Vessels	..... 1 set 5 l , 10 l , 20 l , 50 l ..... 2 sets		A C A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

20-1

BRANCH LOCATION : PATI  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -Working Mass Standard  -Reference of Mass -Precision Equal Arms Balance  -Equal Arms Balance for Verifi- cation of Mass  -Hydrostatic Balance -Hardness Tester Block	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 2 sets 1 g - 1 kg (Verchroom) ..... 4 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 2 sets 25 kg (Iron) ..... 3 tons 3 pieces of 25 kg ..... 3 sets 2 pieces of 10 kg ..... 3 sets 1 a' 5 kg ..... 3 sets 2 a' 10 kg ..... 3 sets ..... 2 sets C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 1 set B class 10 kg ..... 3 sets C class 1 kg ..... 7 sets D class 50 g ..... 4 sets ..... 1 set ..... 2 sets		C C C A A A A A A A A A B B B B A A A A C A

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PATI  
 ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW STANDARD -Electrical Sub Standard Meter (Portable)	..... 1 set		C
3	VOLUME STANDARD - Volume Standard of Glass - Vessels	5 ml - 1000 ml ..... 2 sets 5 l, 10 l, 20 l, 50 l, 100 l, 200 l, 500 l and 1000 l ..... 1 set 5 l, 10 l and 20 l ..... 1 set		C A A
4	LENGTH STANDARD -3 <sup>rd</sup> Class Length Standard -Working Length Standard -Comparator -Bourye Box -Micrometer	..... 1 set ..... - ..... 3 sets ..... 2 sets ..... 1 set		C - B A C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

21-1

BRANCH LOCATION : PURWOKERTO  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<p>MASS &amp; BALANCE</p> <ul style="list-style-type: none"> <li>-E<sub>2</sub> Class Mass Standard</li> <li>-F<sub>1</sub> Class Mass Standard</li> <li>-3<sup>rd</sup> Class Mass Standard</li> <li>-3<sup>th</sup> Class Contra Standard of Mass</li> <li>- Working Standard of Mass</li> </ul> <p>-Reference of Mass</p> <ul style="list-style-type: none"> <li>-Precision Equal Arms Balance</li> <li>-Equal Arms Balance for Verification of Mass</li> </ul> <p>-Hardness Tester Block</p> <ul style="list-style-type: none"> <li>-Mechanical Automatic Balance</li> <li>-Mechanical Precure Balance</li> <li>-Chyo Balance</li> <li>-Hydrostatic Balance</li> </ul>	<p>1 mg - 1 kg ..... 1 set</p> <p>1 mg - 1 kg ..... 1 set</p> <p>1 kg ..... 1 set</p> <p>1 g - 1 kg (Verchroom) ..... 2 sets</p> <p>1 kg - 10 kg (Brass) ..... 1 set</p> <p>1 g - 1 kg (Verchroom) ..... 1 set</p> <p>1 mg - 1000 mg (Aluminium) ..... 1 set</p> <p>1 kg - 20 kg (Iron) ..... 8 sets</p> <p>25 kg (Iron) ..... 170 tons</p> <p>3 pieces of 25 kg ..... 2 sets</p> <p>2 pieces of 10 kg ..... 2 sets</p> <p>5 kg ..... 2 sets</p> <p>10 kg ..... 2 sets</p> <p>..... 1 set</p> <p>E class 1000 mg ..... 2 sets</p> <p>A class 75 kg ..... 1 set</p> <p>B class 10 kg ..... 2 sets</p> <p>C class 1 kg ..... 1 set</p> <p>D class 50 g ..... 1 set</p> <p>..... 1 set</p> <p>..... 1 set</p> <p>..... 1 set</p> <p>..... 1 set</p> <p>..... 1 set</p> <p>..... 1 set</p>		<p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>B</p> <p>B</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p> <p>B</p>

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

21-2

BRANCH LOCATION : PURWOKERTO  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> - Portable Electrical Sub Standard Meter - Water Meter Test Bench	..... 1 set ..... 1 set		A A
3	<b>VOLUME STANDARD</b> - Vessels - Burrets	5 l ..... 2 sets 10 l ..... 2 sets 20 l ..... 4 sets 50 l ..... 3 sets 100 l ..... 1 set 200 l ..... 2 sets 500 l ..... 1 set 1000 l ..... 2 sets 10 ml - 2000 ml ..... 9 sets		A A A C C B A A C
4	<b>LENGTH STANDARD</b> - Working Meter Standard 20 m - Comparator - Bourye Box - Bar Meter - Micrometer	..... 1 set ..... 2 sets ..... 2 sets ..... 1 set ..... 1 set		C B A A C

\* Note A : Usually, B : Often, C : Sometimes



LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PURWOKERTO  
ITEM OF MEASURING INSTRUMENT

Page : 3

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
5	OTHERS -Thermometer  -Stop Watch  -Mamometer -Densimeter -Dial Indicator	0° - 100 °C, Scale 0.1 °C ..... 1 set 20° - 30 °C, Scale 0.01 °C ..... 1 set 25° - 35 °C, Scale 0.01 °C ..... 1 set 0.1 second ..... 2 sets 1 second ..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 1 set		B  B  B B B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

22 - 2

BRANCH LOCATION : SURAKARTA  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
3	LENGTH -Standard III -Working Standard of Length -Dip Stick -Manometer -Cross Stick -Vennier -Micrometer -Working Standard of 20 m -Contrator	..... 1 set 1 m ..... 1 set 1 m ..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 2 sets ..... 1 set ..... 1 set 1 m		C A A C A C C A B
4	ELECTRICITY METER -Portable Test Equipment -Precitest - Test Bench Walthour Meter -kwh Meter -Multimeter	Metrotec ..... 1 set ..... 1 set 3 phase ..... 1 set 1 phase ..... 1 set ..... 1 set		C B C C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

23 - 2

BRANCH LOCATION : MAGELANG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> - Electrical Meter Calibration - Portable Electrical Sub Standard Meter	..... 1 set ..... 1 set		B C
3	<b>VOLUME STANDARD</b> - Vessel	5 l , 10 l , 50 l , 100 l ..... 1 set 20 l ..... 2 sets		A A
4	<b>LENGTH STANDARD</b> - 3 <sup>th</sup> Class Length Standard - Comparator - Bourye Box - Micrometer	..... 1 set ..... 2 sets ..... 2 sets ..... 1 set		B C A B
5	<b>OTHERS</b> - Thermometer - Manometer - Densimeter	0° - 100 °C , Scale 0.1 °C ..... 1 set ..... 1 set ..... 1 set		B C C

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : YOGYAKARTA  
 ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -3 <sup>th</sup> Class Mass Standard -2 <sup>nd</sup> Class Contra Standard of Mass -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -Working Mass Standard	1 kg ..... 1 set 1 g - 1 kg ..... 3 sets 1 mg - 1 g ..... 4 sets 1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg - 10 kg ..... 21 sets 1 g - 1 kg ..... 3 sets 1 mg - 1000 mg ..... 2 sets 1 kg - 20 kg ..... 57 sets 25 kg ..... 6.8 tons 3 pieces of 25 kg ..... 4 sets 2 pieces of 10 kg ..... 4 sets 1 a' 5 kg ..... 4 sets 2 a' 10 kg ..... 4 sets ..... 1 set C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 2 sets A class 75 kg ..... 3 sets B class 10 kg ..... 4 sets C class 1 kg ..... 7 sets D class 50 g ..... 6 sets E class 1000 mg ..... - ..... 1 set ..... 1 set		C C C B B A A A A A A A A A B B B B A A A A - A B
	-Reference of Mass -Precision Balance			
	-Verification Balance			
	-Hardness Tester Block -Moisture Df. Balance			

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

24 - 2

BRANCH LOCATION : YOGYAKARTA  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Portable Master Meter -Roll Tester -Water Meter Test Bench	..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 1 set		B C B A A A
3	<b>VOLUME STANDARD</b> - Volume Standard of Glass - Vessel	5 ml - 1000 ml ..... 1 set 2000 ml ..... 1 set 5 l ..... 2 sets 10 l ..... 3 sets 20 l ..... 3 sets 50 l ..... 1 set 200 l ..... 1 set 1000 l ..... 1 set		C C A A A A A A
4	<b>LENGTH STANDARD</b> -3 <sup>rd</sup> Class Length Standard -Working Length Standard (Meter Bar) -Comparator -Micrometer -Bourye Box -Stick for Measuring -Working Length Standard	..... 1 set ..... 3 sets ..... 1 set ..... 1 set ..... 4 sets ..... 3 sets 20 m ..... 1 set		B A A B A A B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : YOGYAKARTA  
 ITEM OF MEASURING INSTRUMENT

Page : 3

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
5	OTHERS -Thermometer -Stop Watch	..... 7 sets 0.1 second ..... 1 set 0.01 second ..... 1 set		B B B

\* Note A : Usually, B : Often, C : Sometimes



LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : SURABAYA  
 ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW STANDARD -Electrical Meter Calibration / Ethalogir -Master Meter -Portable Electrical Sub Standard Meter / Metrofee -Hydro Carbon -Taximeter / Roll Tester -Mass Meter Standard	..... 1 set ..... 1 set ..... 1 set 150 m <sup>3</sup> ..... 1 set ..... 1 set ..... 1 set		B B C B A B
3	VOLUME STANDARD -Vessels	5 l ..... 5 sets 10 l ..... 8 sets 20 l ..... 2 sets 50 l ..... 2 sets 100 l ..... 1 set 200 l ..... 3 sets 305 l ..... 1 set 500 l ..... - 1000 l ..... 5 sets		A A A A A A A A
4	LENGTH STANDARD -Comparator -Deep Tape -Tape -Bourye Box -Stick for Estimation	..... 7 sets ..... 2 sets ..... 2 sets ..... 3 sets ..... 1 set		A A A A A

\* Note A : Usually, B : Often, C : Sometimes



LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : SURABAYA  
 ITEM OF MEASURING INSTRUMENT

Page : 3

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
5	OTHERS -Desicator -Thermometer -Stop Watch -Microscope	..... 5 sets ..... 3 sets ..... 1 set ..... 1 set		A B B B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

26-1

BRANCH LOCATION : JEMBER

ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -3 <sup>rd</sup> Class Mass of Contra Standard -Working Standard of Weights  -Precision Equal Arms Balance  -Equal Arms Balance for Verification of Weights  -Hardness Tester Block	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg ..... 1 set 1 kg - 25 kg (Brass) ..... 2 sets 1 g - 1 kg ..... 3 sets 25 kg ..... 40 sets 3 pieces of 25 kg ..... 1 set 2 pieces of 10 kg ..... 1 set 5 kg ..... 1 set 10 kg ..... 1 set C class 1 kg ..... 3 sets D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 2 sets B class 10 kg ..... 4 sets C class 1 kg ..... 7 sets D class 50 g ..... 6 sets E class 1000 mg ..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 1 set		C C C C C A A A A A A B B B A A A A A A B B B
2	<b>FLOW STANDARD</b> -Permanent Master Meter -Portable Master Meter -Electrical Meter Calibration	..... 1 set ..... 1 set ..... 1 set		B B B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : JEMBER  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
3	- Portable Electrical Sub Standard Meter  VOLUME STANDARD - Vessel - 5 ml - 1000 ml (Glass)	..... 1 set  5 l , 10 l , 20 l , 100 l , 1000 l ..... 1 set 5 l and 200 l ..... 1 set ..... 1 set		C
4	LENGTH STANDARD - 3 <sup>rd</sup> Class Meter Standard - Working Meter Standard - Comparator - Bourye Box	..... 1 set ..... 2 sets ..... 1 set ..... 1 set		B A C A
5	OTHERS - Densimeter - Moisture Determination Balance	..... 2 sets ..... 1 set		C B

\* Note : A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : MALANG

ITEM OF MEASURING INSTRUMENT

Page: 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -3 <sup>th</sup> Class Mass Standard -3 <sup>th</sup> Class Contra Standard of Mass -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -Working Mass Standard  -Reference of Mass -Precision Balance  -Verification Balance  -Hydrostatic Balance	1 kg 2 sets 1 g - 1 kg (Verchroom) ..... 4 sets 1 mg - 1 g (Stainless Steel) ..... 2 sets 1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 1 set 1 g - 1 kg (Verchroom) ..... 7 sets 1 mg - 1000 mg (Aluminium) ..... 4 sets 1 kg - 50 kg (Iron) ..... 107 sets 25 kg (Iron) ..... 7.2 tons 3 pieces of 25 kg ..... 4 sets 2 pieces of 10 kg ..... 4 sets 1 a' 5 kg ..... 8 sets 2 a' 10 kg ..... - Pieces of 2 kg, 1 kg, 500 g ..... 2 sets ..... 1 set C class 1 kg ..... 2 sets D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 2 sets B class 10 kg ..... 6 sets C class 1 kg ..... 5 sets D class 50 g ..... 6 sets E class 1000 mg ..... - 500 g ..... 1 set		C C C C C A A A A A A A A A B B B B A A A A - C B

\*Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : MALANG

ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	-Hardness Tester Block  FLOW STANDARD -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Portable Master Meter	..... 1 set  ..... 1 set ..... 1 set ..... 1 set		B  B C B
3	VOLUME STANDARD -Volume Standard of Glass -Vessels	5 ml - 1000 ml ..... 9 sets 10 l, 20 l ..... 3 sets 1000 l ..... 1 set		C A A
4	LENGTH STANDARD -3 <sup>th</sup> Class Length Standard -Working Length Standard (Meter Bar) -Comparator -Bourye Box -Stick for Estimation -Micrometer	..... 1 set ..... 1 set  ..... 3 sets ..... 1 set ..... 3 sets ..... 2 sets		C A  B A A B
5	OTHERS -Thermometer	..... 1 set		B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : MADIUN  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>WEIGHT &amp; BALANCE</b> a. 3 <sup>rd</sup> Class Weight Standard b. Opposite of 2nd Class Standard of Weight c. Working Standard of Weights	1 kg ..... 1 set 1 g - 1 kg ..... 1 set 1 mg - 1 g ..... 1 set 1 kg - 10 kg ..... 10 sets 1 g - 1 kg ..... 2 sets 1 mg - 1000 mg ..... 1 set 1 kg - 20 kg ..... 10 sets 25 kg ..... 200 sets (5 tons) 3 pieces of 20 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 5 kg ..... 2 sets 10 kg ..... 1 set C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 5 sets A class 75 kg ..... 1 set B class 10 kg ..... 2 sets C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... 2 sets		C C C A A A A A A A A A B B B A A A A A
2	<b>FLOW STANDARD</b> -Master Meter (Portable) -Electrical Meter Calibration -Portable Electrical Sub Standard Meter	..... 1 set ..... 1 set ..... 1 set		B B C

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : MADIUN  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
	-Water Meter Installation / Test Bench	..... 1 set		A
3	VOLUME STANDARD -Tank Standard	5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l and 1000 l ..... 1 set		A
	-Thermometer Standard	5 l, 10 l and 20 l ..... 1 set		B
	-Psychrometer	0° - 100°C, Scale 0.1°C ..... 1 set		C
	-Barometer	..... 1 set		C
	-Stop Watch	0.1 second ..... 2 set		C
	-Manometer	0.01 second ..... 1 set		C
	-Densimeter	..... 1 set		C
4	LENGTH STANDARD -3 <sup>th</sup> Class Meter Standard	..... 1 set		C
	-Working Meter Standard	..... 2 sets		A
	-Comparator	..... 1 set		B
	-Bourye Box	..... 2 sets		A
	-Estimation Stick	..... 1 set		A
	-Measure Cross Meter (Salil)	..... 2 sets		A
	-Working Meter Standard	20 m ..... 1 set		A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : KEDIRI

ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>WEIGHT &amp; BALANCE</b> a. Class E <sub>2</sub> b. Class F <sub>1</sub> c. Weight Standard 3 <sup>rd</sup> Class d. Weight Standard  e. Working Standard of Weight          f. Precision Equal Arms Balance          g. Equal Arms Balance for Verification of Weights          h. Hydrostatic Balance	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg ..... 1 set 1 m - 1 g ..... 1 set 1 kg - 10 kg ..... 2 sets 1 g - 1 kg ..... 4 sets 1 mg - 1000 mg ..... 2 sets 1 kg - 20 kg ..... 3 sets 25 kg ..... 6 sets 25 kg ..... 2 sets 1a' 10 kg ..... 2 sets 1a' 5 kg ..... 2 sets C Class 1 kg ..... 1 set D Class 50 g ..... 1 set E Class 1000 mg ..... 1 set A Class 75 kg ..... 1 set B Class 10 kg ..... 2 sets C Class 1 kg ..... 2 sets D Class 50 g ..... 1 set E Class 1000 mg ..... 1 set 1 kg ..... 1 set		C C A A A A A A A A A A A A B B B A A A A A C

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : KEDIRI

ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME a. Volume Standards b. Water Meter for Verification of Flow Meter c. Barometer	5 l , 10 l , 20 l , 50 l , 100 l , 200 l , 500 l and 1000 l ..... 1 set ..... 1 set ..... 1 set ..... 1 set		A A C
3	LENGTH a. 3 <sup>th</sup> Class Standard	..... 1 set		B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : BOJONEGORO  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -Contra Standard of Mass -Working Mass Standard  -Reference of Mass -Precision Equal Arms Balance  -Equal Arms Balance (Verification Balance)  -Hydrostatic Balance	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 3 sets 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 1 g (Stainless Steel) ..... 1 set 1 kg - 20 kg (Brass) ..... 2 sets 1 g - 1 kg (Verchroom) ..... 4 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 3 sets 25 kg (Iron) ..... - 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 1 a' 5 kg ..... 2 sets 2 a' 10 kg ..... 2 sets ..... 1 set C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 2 sets B class 10 kg ..... 4 sets C class 1 kg ..... 2 sets D class 50 g ..... 2 sets E class 1000 mg ..... - 500 g ..... 1 set		C C C C C A A A A - A A A A B B B B A A A A - C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : BOJONEGORO  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW STANDARD - Portable Electrical Sub Standard Meter	..... 1 set		C
3	VOLUME STANDARD - Volume Standard of Glass - Vessel	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l ..... 2 sets 50 l, 100 l, 200 l, 500 l, 1000 l ..... 1 set 20 l ..... 1 set		C A A A
4	LENGTH STANDARD - 3th Class Length Standard - Working Length Standard - Comparator - Bourye Box - Deep Tape	..... 1 set ..... 1 set ..... 1 set ..... 1 set ..... 1 set		C A B A A
5	OTHERS - Thermometer - Psychrometer - Barometer (Mercury) - Manometer - Densimeter	..... 3 sets ..... 1 set ..... 1 set ..... 1 set ..... 1 set		B C C C C

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PONTIANAK  
 ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Weights Standard -F <sub>1</sub> Class Weights Standard -3 <sup>rd</sup> Class Weight Standard -Working Standard of Weights  -3 of 25 kg -2 of 10 kg -1 of 5 kg -Couple of 10 kg -Reference of Weights  PRECISION EQUAL ARMS BALANCE -C Class -D Class -E Class	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg - 10 kg ..... 16 sets 1 g - kg ..... 1 set 1 kg - 20 kg ..... 22 sets 25 kg ..... - ..... 13 sets ..... 6 sets ..... 7 sets ..... 4 sets ..... 1 set  1 kg ..... 1 set 50 g ..... 1 set 1000 mg ..... 1 set		C C C A A A - A A A A B  B B B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PONTIANAK  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
	EQUAL ARMS BALANCE FOR VERIFICATION OF WEIGHTS -A Class -B Class -C Class -D Class -E Class HARDNESS TESTER BLOCK	75 kg ..... 1 set 10 kg ..... 1 set 1 kg ..... 2 sets 50 g ..... 6 sets 1000 mg ..... - ..... 1 set		A A A A - B
2	FLOW STANDARD -Portable Master Meter -Electrical Meter Calibration -Portable Electrical Sub Standard Meter	..... 1 set ..... 1 set ..... 1 set		B B C
3	VOLUME STANDARD -Measuring Vessel Standard (Bejana Meter Standard)	10 l ..... 3 sets 20 l ..... 2 sets 200 l ..... 1 set 1000 l ..... 1 set		A A A A
4	LENGTH STANDARD -3 <sup>rd</sup> Class Meter Standard -Comparator -Bourye Box -Measuring Stick	..... 1 set ..... 1 set ..... 1 set ..... 1 set		C B A A

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PONTIANAK  
 ITEM OF MEASURING INSTRUMENT

Page : 3

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
5	-Measuring Crossing -Working Meter Standard  OTHERS -Manometer -Thermometer -Stop Watch	..... 1 set 20 m ..... 1 set  ..... 1 set ..... 7 sets ..... 2 sets		A A  C B C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : SINGKAWANG  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -2 <sup>th</sup> Class Mass Contra Standard  -Working Standard of Mass  -Precision Equal Arms Balance -C Class -D Class -E Class -Equal Arms Balance for Verification of Weights -A Class -B Class -C Class -Hydrostatic Balance	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg ..... 1 set 1 mg - 1 g ..... 1 set 1 kg - 10 kg (Brass) ..... 2 sets 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 1 set 1 kg - 10 kg (Iron) ..... 3 sets 25 kg (Iron) ..... 3 tons 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 1 piece of 5 kg ..... 2 sets 2 a' 10 g ..... 2 sets  1 kg ..... 1 set 50 g ..... 1 set 1000 mg ..... 1 set  75 kg ..... 1 set 10 kg ..... 3 sets 1 kg ..... 1 set 1 kg ..... 1 set		C C C C C A A A A A A A A B B B  A A A A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : SINGKAWANG  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW STANDARD - Portable Electrical Sub Standard Meter	..... 1 set		B
3	VOLUME STANDARD - 5 ml - 1000ml (Glass) - Measuring Vessels (Bejana Meter)	..... 4 sets 5 l ..... 2 sets 10 l ..... 2 sets 20 l ..... 3 sets 50 l, 100 l, 200 l, 500 l, 1000 l ..... 1 set		C A A A A
4	LENGTH STANDARD - Working Standard Meter - Comparator - Bourye Box - Measuring Stick - Micrometer	..... 1 set ..... 2 sets ..... 2 sets ..... 1 set ..... 1 set		A A B C
5	OTHERS - Thermometer - Psychrometer - Barometer - Stop Watch - Manometer - Densimeter	0° - 100 °C, Scale 0.1 °C ..... 1 set ..... 1 set ..... 1 set 0.01 second ..... 1 set ..... 1 set ..... 24 sets		B C C B B C

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

BRANCH LOCATION :  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : PALANGKARAYA  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -Class Contra of Mass Standard - Working Mass Standard  -Precision Equal Arms Balance -E Class -Equal Arms Balance for Verifi- cation of Weights -A Class -B Class -C Class -D Class -Hardness Tester Block -Destiator	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 2 sets 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 0.5 g ..... 1 set 1 kg - 10 kg (Brass) ..... 10 sets 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 1 set 1 g - 1 kg (Brass) ..... 4 sets 1 kg - 10 kg (Iron) ..... 16 sets 25 kg (Iron) ..... 84 sets 3 pieces of 25 kg ..... 6 sets 2 pieces of 10 kg ..... 2 sets 10 kg ..... 5 sets 5 kg ..... 2 sets  1000 mg ..... 1 set  75 kg ..... 1 set 10 kg ..... 2 sets 1 kg ..... 4 sets 50 g ..... 4 sets ..... 2 sets ..... 1 set		C C C C C  A A A A A A A A A  B  A A A A A B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PALANGKARAYA  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	VOLUME STANDARD - Vessels	5 l , 10 l , 20 l , 50 l , 100 l , 200 l 500 l and 1000 l ..... 1 set 10 l , 20 l ..... 1 set		A A
3	LENGTH STANDARD - 3 <sup>th</sup> Class Meter Standard - Working Meter Standard - Comparator - Bourye Box - Micrometer	..... 1 set ..... 2 sets ..... 3 sets ..... 2 sets ..... 1 set		B A A A B
4	OTHERS - Thermometer - Barometer - Densimeter	0 ° - 100 °C, Scale 0.1 °C ..... 1 set ..... 1 set ..... 1 set		B C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : BANJARMASIN  
 ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -3 <sup>th</sup> Class Contra Standard of Mass -Working Mass Standard  -Reference of Mass -Precision Balance  - Verification Balance  -Hydrostatic Balance -Moisture Determination Balance	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Stainless Steel) ..... 2 sets 1 kg - 10 kg (Brass) ..... 1 set 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 3 sets 25 kg (Iron) ..... 4.2 tons 3 pieces of 25 kg ..... 4 sets 2 pieces of 10 kg ..... 3 sets 1 a' 5 kg ..... 2 sets 2 a' 10 kg ..... 3 sets ..... 1 set C class 1 kg ..... 2 sets D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 1 set B class 10 kg ..... 2 sets C class 1 kg ..... 3 sets D class 50 g ..... 2 sets E class 1000 mg ..... - 500 g ..... 1 set ..... 1 set		C C C C C A A A A A A A A A B B B B A A A A - C B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : BANJARMASIN  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Portable Electrical Sub Standard Meter	..... 1 set ..... 1 set		B C
3	<b>VOLUME STANDARD</b> - Volume Standard of Mass -Vessels	5 ml - 1000 ml ..... 1 set 5 l , 10 l , 20 l , 50 l , 100 l , 200 l 500 l , 1000 l ..... 1 set		C A A
4	<b>LENGTH STANDARD</b> -3 <sup>rd</sup> Class Length Standard -Working Length Standard -Comparator -Bourye Box -Micrometer	..... 1 set ..... 1 set ..... 2 sets ..... 1 set ..... 1 set		C A B A B
5	<b>OTHERS</b> -Manometer -Thermometer -Stop Watch	..... 1 set ..... 2 sets 0.1 second ..... 1 set 0.01 second ..... 1 set		C B B B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : SAMARINDA  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<p><b>MASS &amp; BALANCE</b></p> <ul style="list-style-type: none"> <li>-3<sup>rd</sup> Class Mass Standard</li> <li>-E<sub>2</sub> Class Mass Standard</li> <li>-F<sub>1</sub> Class Mass Standard</li> <li>-2<sup>nd</sup> Class Contra Standard of Mass</li> <li>-Working Mass Standard</li> </ul> <p>-Reference of Mass</p> <p>-Precision Balance</p> <p>-Verification Balance</p> <p>-Hydrostatic Balance</p> <p>-Hardness Tester Block</p>	<ul style="list-style-type: none"> <li>1 kg ..... 1 set</li> <li>1 mg - 1 kg ..... 1 set</li> <li>1 mg - 1 kg ..... 1 set</li> <li>1 g - 1 kg (Verchroom) ..... -</li> <li>1 kg - 10 kg (Brass) ..... 12 sets</li> <li>1 g - 1 kg (Verchroom) ..... 2 sets</li> <li>1 mg - 1000 mg (Aluminium) ..... 2 sets</li> <li>1 kg - 20 kg (Iron) ..... 12 sets</li> <li>25 kg (Iron) ..... 5 tons</li> <li>3 pieces of 25 kg ..... 2 sets</li> <li>2 pieces of 10 kg ..... 2 sets</li> <li>1 a' 5 kg ..... 2 sets</li> <li>2 a' 10 kg ..... 2 sets</li> <li>..... 1 set</li> <li>C class 1 kg ..... 1 set</li> <li>D class 50 g ..... 1 set</li> <li>E class 1000 mg ..... 1 set</li> <li>A class 75 kg ..... 1 set</li> <li>B class 10 kg ..... 2 sets</li> <li>C class 1 kg ..... 2 sets</li> <li>D class 50 g ..... 2 sets</li> <li>E class 1000 mg ..... 1 set</li> <li>..... 1 set</li> <li>..... 1 set</li> </ul>		<ul style="list-style-type: none"> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>B</li> <li>B</li> <li>B</li> <li>C</li> <li>B</li> <li>B</li> <li>B</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>B</li> <li>A</li> </ul>

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : SAMARINDA  
 ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	-Moisture Determination Balance  VOLUME STANDARD - Volume Standard of Glass -Vessels	..... 1 set  5 ml - 1000 ml ..... 1 set 5 l , 10 l , 20 l , 50 l , 100 l , 200 l , 500 l 1000 l ..... 1 set 5 l , 10 l , 20 l ..... 2 sets		B
3	FLOW STANDARD -Electrical Meter Calibration (Landys & Gyr) -Portable Electrical Sub Standard Meter	..... 1 set  ..... 1 set  ..... 1 set		B C
4	LENGTH STANDARD -3 <sup>rd</sup> Class Length Standard -Working Length Standard (Meter Bar) -Working Standard of Length -Bourye Box -Comparator -Stick for Measuring -Micrometer	..... 1 set  ..... 1 set  ..... 1 set  20 m ..... 2 sets ..... 1 set ..... 1 set ..... 1 set		B A A A A

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : SAMARINDA  
 ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
5	OTHERS - Thermometer - Psychrometer - Manometer - Barometer - Stop Watch	0° - 100 °C, Scale 0.1 °C ..... 1 set ..... 1 set ..... 1 set ..... 1 set 0.1 second ..... 1 set 0.01 second ..... 1 set		B C B B B B

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : MANADO  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass of Contra Standard -Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 g - 1 kg (Verchroom) ..... 1 set  1 kg - 10 kg (Brass) ..... 13 sets 1 g - 1 kg (Verchroom) ..... 9 sets 1 mg - 1000 mg (Aluminium) ..... 3 sets 1 kg - 20 kg (Iron) ..... 20 sets 25 kg (Iron) ..... 120 sets 5 kg - 25 kg (Brass) ..... 8 sets 3 pieces of 25 kg ..... 10 sets 2 pieces of 10 kg ..... 6 sets 5 kg ..... 4 sets 10 kg ..... 2 sets  E class 1000 mg ..... 2 sets A class 75 kg ..... 2 sets B class 10 kg ..... 4 sets C class 1 kg ..... 3 sets D class 50 g ..... 7 sets ..... 1 set  ..... 1 set ..... 1 set		C C C  A A A A A A A A A A A B A A A A A  B C
2	FLOW STANDARD -Electrical Meter Calibration -Portable Electrical Sub Std. Meter			

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : MANADO  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
	-Master Meter -Roll Fester	..... 1 set ..... 1 set		B B
3	VOLUME STANDARD -Vessels	5 l , 10 l , 20 l , 50 l , 200 l , 1000 l ..... 1 set 5 l and 20 l ..... 2 sets		A A
4	LENGTH STANDARD -3 <sup>th</sup> Meter Standard -Working Length Standard (Meter Bas) -Comparator -Bourye Box -Micro Meter	..... 1 set ..... 2 sets ..... 2 sets ..... 2 sets ..... 1 set		C A B A C
5	OTHERS -Thermometer -Stop Watch	0 ° - 100 °C, Scale 0.1 °C ..... 1 set 0.1 second ..... 1 set		B C

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PALU  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 14 sets 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 4 sets 1 kg -20 kg (Iron) ..... 14 sets 25 kg (Iron) ..... 5 tons 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 5 kg ..... 2 sets 10 kg ..... 2 sets		C C C A A A A A A A
2	-Precision Equal Arms Balance -Equal Arms Balance for Verifi- cation of Mass  - Hydrostatic Balance - Hardness Tester Block	A class 75 kg ..... 1 set B class 10 kg ..... 1 set C class 1 kg ..... 2 sets D class 50 g ..... 1 set E class 1000 mg ..... 1 set ..... 1 set ..... 1 set		A A A A A C B
	FLOW STANDARD -Electrical Meter Calibration -Portable Electrical Sub Standard Meter	..... 1 set ..... 1 set		B C

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : PALU  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
	<ul style="list-style-type: none"> <li>- Portable Master Meter</li> <li>- Water Meter Test Bench</li> </ul>	<ul style="list-style-type: none"> <li>..... 1 set</li> <li>..... 1 set</li> </ul>		<ul style="list-style-type: none"> <li>B</li> <li>A</li> </ul>
3	VOLUME STANDARD - Volume Standard of Glass - Vessels	<ul style="list-style-type: none"> <li>5 ml - 1000 ml ..... 2 sets</li> <li>5 l, 10 l, 20 l, 50 l, 100 l, 200 l</li> <li>500 l and 1000 l ..... 1 set</li> <li>5 l, 10 l ..... 1 set</li> <li>20 l, 50 l ..... 2 sets</li> </ul>		C
4	LENGTH STANDARD - 3 <sup>rd</sup> Class Meter Standard - Working Length Standard - Comparator - Bourye Box - Micrometer	<ul style="list-style-type: none"> <li>..... 1 set</li> <li>..... 2 sets</li> <li>..... 1 set</li> <li>..... 2 sets</li> <li>..... 1 set</li> </ul>		<ul style="list-style-type: none"> <li>B</li> <li>A</li> <li>B</li> <li>A</li> <li>B</li> </ul>
5	OTHERS - Thermometer - Psychrometer - Barometer - Stop Watch - Mamometer - Densimeter	<ul style="list-style-type: none"> <li>0° - 100 °C, Scale 0.1 °C ..... 1 set</li> <li>..... 1 set</li> <li>..... 1 set</li> <li>0.1 second ..... 2 sets</li> <li>0.01 second ..... 1 set</li> <li>..... 1 set</li> <li>..... 1 set</li> </ul>		<ul style="list-style-type: none"> <li>B</li> <li>C</li> <li>C</li> <li>B</li> <li>B</li> <li>C</li> </ul>

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : WUNG PANDANG  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -Working Standard of Weights  -Precision Equal Arms Balance  -Equal Arms Balance for Verifi- cation of Weights  -Hardness Tester Block -Substitution Balance -Moisture Balance	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 2 sets 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 4 sets 25 kg (Iron) ..... 258 sets 3 pieces of 25 kg ..... 3 sets 2 pieces of 10 kg ..... 3 sets 5 kg ..... 3 sets 2 a' 10 kg ..... 3 sets C class 1 kg ..... 2 sets D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 2 sets B class 10 kg ..... 2 sets C class 1 kg ..... 5 sets D class 50 g ..... 5 sets E class 1000 mg ..... - ..... 1 set ..... 1 set ..... 2 sets		C C C A A A A A A A A A A B B B A A A A - C B B

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : WUNG PANDANG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Portable Master Meter	..... 1 set ..... 1 set ..... 1 set		B C B
3	<b>VOLUME STANDARD</b> -Can (Glass) -Vessels	5 ml - 1000 ml ..... 1 set 5 l , 20 l , 50 l , 200 l and 1000 l ..... 1 set 5 l , 20 l ..... 2 sets 50 l ..... 1 set		C A A A
4	<b>LENGTH STANDARD</b> -3 <sup>th</sup> Class Meter Standard -Comparator -Bourye Box -Working Meter Standard	..... - ..... 3 sets ..... 1 set 20 m ..... 1 set		- B A A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : KENDARI  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -3 <sup>th</sup> Class Mass of Contra Standard -Working Standard of Weights	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 g - 1 kg (Verchroom) ..... 1 mg - 1 g (Stainless Steel) ..... 1 kg - 10 kg (Brass) ..... 1 set 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 1000 mg (Aluminium) ..... 1 set 1 kg - 20 kg (Iron) ..... 2 sets (Without 20 kg) 25 kg (Iron) ..... 117 sets 3 pieces of 25 kg ..... 2 sets A class 75 kg ..... 2 sets B class 10 kg ..... 2 sets C class 1 kg ..... 2 sets D class 50 g ..... 1 set E class 1000 mg ..... 1 set 1 kg ..... 1 set ..... 1 set ..... 1 set		C C - - - A A A A A A A A C C B
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Electrical Sub Standard Meter (Portable) -Portable Master Meter	..... 1 set ..... 1 set ..... 1 set		B C B

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

40 - 1

BRANCH LOCATION : DENPASAR  
 ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Standard -F <sub>1</sub> Class Standard -3 <sup>th</sup> Class Standard  - Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg ..... 3 sets 1 mg - 1 g ..... 2 sets 1 kg - 10 kg (Brass) ..... 8 sets 1 g - 1 kg (Verchroom) ..... 3 sets 1 mg - 1000 mg (Aluminium) ..... 5 sets 1 kg - 20 kg (Iron) ..... 38 sets 25 kg (Iron) 5.7 tons 3 pieces of 25 kg ..... 9 sets 2 pieces of 10 kg ..... 6 sets 1 a' 5 kg ..... 3 sets 2 a' 10 kg ..... -  C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 1 set B class 10 kg ..... 2 sets C class 1 kg ..... 4 sets D class 50 g ..... 4 sets E class 1000 mg ..... 1 set ..... 3 sets		C C C C C A A A A  A A A A A B B B B A A A A A B
	-Reference of Mass -Precision Equal Arms Balance (Precision Balance)  -Equal Arms Balance (Verification Balance)  -Hardness Tester Block			

\* Note A : Usually, B : Often, C : Sometimes



# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : DENPASAR  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used #(A, B, C)
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Master Meter	..... 1 set ..... 1 set ..... 1 set		B C B
3	<b>VOLUME STANDARD</b> -Volume Standard of Glass -Vessels	5 ml - 1000ml ..... 1 set 5 l ..... 2 sets 10 l ..... 2 sets 20 l ..... 3 sets 50 l , 100 l , 200 l , 500 l , 1000 l ..... 1 set		C A A A A
4	<b>LENGTH STANDARD</b> -3 <sup>rd</sup> Class Length Standard -Working Length Standard (Meter Bar) -Working Length Standard -Comparator -Bourye Box -Micrometer	..... 1 set ..... 2 sets 20 m ..... 1 set ..... 1 set ..... 2 sets		C A A B A C
5	<b>OTHERS</b> -Thermometer -Psychrometer	..... 3 sets ..... 1 set		C C

\* Note A : Usually, B : Often, C : Sometimes

LIST OF MEASURING EQUIPMENT

Page: 1

BRANCH LOCATION : MATRAM  
ITEM OF MEASURING INSTRUMENT

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	MASS & BALANCE -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -Working Standard of Mass  -Reference of Mass -Precision Equal Arms Balance  -Equal Arms Balance for Veri- cation of Weights  -Hydrostake Balance -Hardness Tester Block	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 1 set 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 1000 mg (Aluminium) ..... 1 set 1 kg - 20 kg (Iron) ..... 1 set 25 kg (Iron) ..... 120 sets 3 pieces of 25 kg ..... 6 sets 2 pieces of 10 kg ..... 4 sets 5 kg ..... 2 sets 10 g ..... 2 sets ..... 1 set C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 2 sets B class 10 kg ..... 2 sets C class 1 kg ..... 2 sets D class 50 g ..... 2 sets 1 kg ..... 1 set ..... 1 set		C C C A A A A A A A A A A B B B A A A A B A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : MATRAM

ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>VOLUME STANDARD</b> - Vessels - Volume Standard of Glass	5 l, 10 l, 20 l, 50 l, 100 l, 200 l, 500 l, 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 1 set 5 ml - 1000 ml ..... 7 sets		A A
3	<b>FLOW STANDARD</b> - Electrical Meter Calibration - Portable Meter Sub Standard Meter - Water Meter Test Bench	..... 1 set ..... 1 set ..... 1 set		B C A
4	<b>OTHERS</b> - Thermometer - Psychrometer - Barometer - Stop Watch	0° - 100 °C, Scale 0.1 °C ..... 1 set ..... 1 set ..... 1 set 0.1 second ..... 2 sets 0.01 second ..... 1 set		B C C B B
5	<b>LENGTH STANDARD</b> - 3 <sup>rd</sup> Class Meter Standard - Working Meter Standard - Bourye Box - Measuring Stick - Manometer - Densimeter	..... ..... 1 set ..... 2 sets ..... 2 sets ..... 1 set ..... 1 set		- B A A A B C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : KUPANG  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>th</sup> Class Mass Standard -Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 kg - 10 kg (Brass) ..... 10 sets 1 g - 1 kg (Verchroom) ..... 3 sets 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 12 sets 25 kg (Iron) ..... 5 tons 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 1a' 5 kg ..... 2 sets 2a' 10 kg ..... 2 sets C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 15 kg ..... 1 set B class 10 kg ..... 1 set C class 1 kg ..... 2 sets D class 50 g ..... 1 set 0.5 kg ..... 1 set ..... 1 set		C C C A A A A A A A A B B B A A A A C A
2	<b>VOLUME STANDARD</b> -Volume Standard of Glass	5 ml - 1000ml ..... 2sets		C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : KUPANG  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
	- Vessels	5 l , 10 l , 20 l , 50 l , 100 l , 200 l , 500 l 1000 l ..... 1 set		A A
3	FLOW STANDARD -Electrical Meter Calibration -Portable Eleet Sub Standard Meter	..... 1 set ..... 1 set ..... 1 set		B C
4	LENGTH STANDARD -3 <sup>th</sup> Class Length Standard - Working Length Standard - Bourye Box - Comparator - Stick for Measuring	..... 1 set ..... 2 sets ..... 2 sets ..... 1 set ..... 1 set		B A A A A
5	OTHERS - Manometer - Thermometer - Psychrometer - Mercury Barometer - Stop Watch - Densimeter	..... 1 set ..... 1 set ..... 1 set ..... 1 set 0.01 second ..... 1 set 0.01 second ..... 1 set ..... 1 set		C B C C B B C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : TERNATE  
ITEM OF MEASURING INSTRUMENT

Page: 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<p>MASS &amp; BALANCE</p> <ul style="list-style-type: none"> <li>-E<sub>2</sub> Class Mass Standard</li> <li>-F<sub>1</sub> Class Mass Standard</li> <li>-3<sup>rd</sup> Class Mass Standard</li> <li>-Class Contra Standard of Mass</li> <li>- Working Mass Standard</li> </ul> <p>-Reference of Mass</p> <ul style="list-style-type: none"> <li>-Precision Equal Arms Balance</li> </ul> <p>-Equal Arms Balance for Verification of Mass</p> <p>-Hydrostatic Balance</p>	<ul style="list-style-type: none"> <li>1 mg - 1 kg ..... 1 set</li> <li>1 mg - 1 kg ..... 1 set</li> <li>1 kg ..... 1 set</li> <li>1 g - 1 kg (Verchroom) ..... 1 set</li> <li>1 mg - 1 g (Stainless Steel) ..... 1 set</li> <li>1 kg - 10 kg (Brass) ..... 2 sets</li> <li>1 g - 1 kg (Verchroom) ..... 4 sets</li> <li>1 mg - 1000 mg (Aluminium) ..... 2 sets</li> <li>1 kg - 20 kg (Iron) ..... 3 sets</li> <li>25 kg (Iron) ..... 3 tons</li> <li>3 pieces of 25 kg ..... 2 sets</li> <li>2 pieces of 10 kg ..... -</li> <li>5 kg ..... 2 sets</li> <li>10 kg ..... 2 sets</li> <li>..... 1 set</li> <li>C class 1 kg ..... 1 set</li> <li>D class 50 kg ..... 1 set</li> <li>E class 1000 mg ..... 1 set</li> <li>A class 75 kg ..... 1 set</li> <li>B class 10 kg ..... 1 set</li> <li>C class 1 kg ..... 1 set</li> <li>D class 50 g ..... 1 set</li> <li>E class 1000 mg ..... 1 set</li> <li>..... 1 set</li> </ul>		<ul style="list-style-type: none"> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>-</li> <li>A</li> <li>A</li> <li>B</li> <li>B</li> <li>B</li> <li>B</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>B</li> </ul>

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : TERNATE  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	FLOW STANDARD - Portable Electrical Sub Standard Meter	..... 1 set		C
3	VOLUME STANDARD - Volume Standard of Glass - Vessels	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l and 1000 l ..... 1 set 10 l ..... 1 set		C A A
4	LENGTH STANDARD - Working Length Standard - Comparator - Bourye Box - Micrometer	..... 2 sets ..... 1 set ..... 2 sets ..... 1 set		A B A C
5	OTHERS - Thermometer - Psychrometer - Stop Watch	0° - 100°C, Scale 0.1°C ..... 1 set ..... 1 set 0.1 second ..... 1 set 0.01 second ..... 1 set		B C C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : JAYAPURA  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -Working Mass Standard  -Precision Balance  -Verification Balance	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 mg - 1000 mg (Aluminium) ..... 2 sets 1 kg - 20 kg (Iron) ..... 1 set 25 kg (Iron) ..... 2.5 tons C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... - B class 10 kg ..... - C class 1 kg ..... - D class 50 g ..... 1 set E class 1000 mg ..... 1 set 500 g ..... 1 set		C C A A A B B B - - - A A A
2	<b>FLOW STANDARD</b> -Electrical Meter Calibration -Portable Electrical Sub Standard Meter -Portable Master Meter	..... 1 set ..... 1 set ..... 1 set		B C B
3	<b>VOLUME STANDARD</b> -Vessels	100 l , 200 l , 500 l , 1000 l ..... 1 set		A

\* Note A : Usually, B : Often, C : Sometimes



LIST OF MEASURING EQUIPMENT

BRANCH LOCATION : JAYAPURA  
 ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
4	LENGTH STANDARD - Stick for Measuring - Crossing Meter (Salibmeter)	..... 1 set ..... 1 set		A A
5	OTHERS - Mercury Barometer - Working Length Standard 20 m	..... 1 set ..... 1 set		C A

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : SORONG  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<b>MASS &amp; BALANCE</b> -E <sub>2</sub> Class Mass Standard -F <sub>1</sub> Class Mass Standard -3 <sup>rd</sup> Class Mass Standard -2 <sup>nd</sup> Contra Standard of Mass -Working Mass Standard	1 mg - 1 kg ..... 1 set 1 mg - 1 kg ..... 1 set 1 kg ..... 1 set 1 g - 1 kg (Verchroom) ..... 1 set 1 mg - 1 g (Stainless Steel) ..... 1 set 1 kg - 10 kg (Brass) ..... 1 set 1 g - 1 kg (Verchroom) ..... 2 sets 1 mg - 1000 mg (Aluminium) ..... 1 set 1 kg - 20 kg (Iron) ..... 1 set 25 kg (Iron) ..... 3 tons 3 pieces of 25 kg ..... 2 sets 2 pieces of 10 kg ..... 2 sets 1 a' 5 kg ..... 2 sets 2 a' 10 kg ..... 2 sets C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set A class 75 kg ..... 1 set B class 10 kg ..... 1 set C class 1 kg ..... 1 set D class 50 g ..... 1 set E class 1000 mg ..... 1 set ..... 1 set		C C C C C A A A A A A A A B B B A A A A A C
2	<b>FLOW STANDARD</b> -Portable Electric Sub Standard Meter	..... 1 set		C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : SORONG  
ITEM OF MEASURING INSTRUMENT

Page : 2

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
3	VOLUME STANDARD - Volume Standard of Glass - Vessels	..... 1 set 5 l , 10 l , 20 l , 50 l , 100 l , 200 l 500 l , 1000 l ..... 2 sets		C A
4	LENGTH STANDARD - Working Length Standard - Micrometer	..... 1 set 20 m ..... 1 set ..... 1 set		A C
5	OTHERS - Psychrometer - Mercury Barometer - Stop Watch	..... 1 set ..... 1 set 0.1 ° second ..... 2 sets 0.01 second ..... 2 sets		C C C C

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : DILI  
ITEM OF MEASURING INSTRUMENT

Page : 1

No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
1	<p><b>MASS &amp; BALANCE</b></p> <ul style="list-style-type: none"> <li>-E<sub>2</sub> Class Mass Standard</li> <li>-F<sub>1</sub> Class Mass Standard</li> <li>-3<sup>th</sup> Class Mass Standard</li> <li>-Contra Standard of Mass</li> <li>-Working Mass Standard</li> </ul> <p><b>-Precision Equal Arms Balance</b></p> <p><b>-Equal Arms Balance for Verification of Mass</b></p> <p><b>-Hydrostatic Balance</b></p>	<ul style="list-style-type: none"> <li>1 mg - 1 kg ..... 1 set</li> <li>1 mg - 1 kg ..... 1 set</li> <li>1 kg ..... 1 set</li> <li>1 g - 1 kg (Verchroom) ..... 1 set</li> <li>1 mg - 1 g (Stainless Steel) ..... 1 set</li> <li>1 kg - 10 kg (Brass) ..... -</li> <li>1 g - 1 kg (Verchroom) ..... 4 sets</li> <li>1 mg - 1000 mg (Aluminium) ..... 2 sets</li> <li>1 kg - 20 kg (Iron) ..... 3 sets</li> <li>25 kg (Iron) ..... 3 tons</li> <li>3 pieces of 25 kg ..... 2 sets</li> <li>2 pieces of 10 kg ..... 2 sets</li> <li>1 a' 5 kg ..... 2 sets</li> <li>2 a' 10 kg ..... 2 sets</li> <li>C class 1 kg ..... 1 set</li> <li>D class 50 g ..... 1 set</li> <li>E class 1000 mg ..... 1 set</li> <li>A class 75 kg ..... 1 set</li> <li>B class 10 kg ..... 2 sets</li> <li>C class 1 kg ..... 1 set</li> <li>D class 50 g ..... 1 set</li> <li>E class 1000 mg ..... -</li> <li>500 g ..... 1 set</li> </ul>		<ul style="list-style-type: none"> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>-</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>B</li> <li>B</li> <li>B</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>-</li> <li>B</li> </ul>

\* Note A : Usually, B : Often, C : Sometimes

# LIST OF MEASURING EQUIPMENT

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BRANCH LOCATION : DILLI  
ITEM OF MEASURING INSTRUMENT

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No.	Equipment Name	Specification (including Accuracy and No. of sets)	Operation Period	Frequency used *(A, B, C)
2	<b>FLOW STANDARD</b> - Portable Electrical Sub Standard Meter	..... 1 set		C
3	<b>VOLUME STANDARD</b> - Standard Volume of Glass - Vessels	5 ml - 1000 ml ..... 1 set 5 l, 10 l, 20 l, 50 l, 100 l, 200 l 500 l, 1000 l ..... 1 set 5 l, 10 l, 20 l ..... 1 set		C A A
4	<b>LENGTH STANDARD</b> - Working Length Standard (Meter Bar) - Comparator - Bour Box - Micrometer - Deep Tape 100 m	..... 2 sets ..... 1 set ..... 2 sets ..... 1 set ..... 1 set		A B A C B
5	<b>OTHERS</b> - Manometer - Densimeter - Thermometer - Psychrometer	..... 1 set ..... 1 set 0° - 100 °C, Scale 0.1 °C ..... 1 set ..... 1 set		C C C C

\* Note A : Usually, B : Often, C : Sometimes

Table 3-8 Verification Number of Length (Initial and Reverification)

Length Total

No.	Branch Name	1990				1991				1992			
		Initial Verification		Reverifi- cation	Total	Initial Verification		Reverifi- cation	Total	Initial Verification		Reverifi- cation	Total
		Domestic	Imported			Domestic	Imported			Domestic	Imported		
1	Banda Aceh	0	0	203	0	0	265	0	0	251			
2	Langsa	0	0	34	0	0	82	0	0	63			
3	Medan	0	0	447	0	0	709	0	1	950			
4	P.Siantar	0	0	58	0	0	67	0	0	133			
5	Pudang	0	0	599	0	0	358	0	0	322			
6	Pekabaru	0	65	515	58	0	603	0	100	494			
7	Jambi	0	0	209	0	0	205	0	0	162			
8	Palembang	0	13	474	16	0	386	0	3	284			
9	Lampung	0	0	108	0	0	77	0	0	125			
10	Bengkulu	0	0	92	0	0	103	0	0	85			
11	Jakarta	10,377	0	160	7,556	0	305	7,353	0	221			
12	Bandung	357	0	1,522	917	0	1,131	607	0	1,796			
13	Srang	0	0	196	0	0	151	0	0	157			
14	Purwakarta	0	0	168	0	0	204	0	0	153			
15	Bogor	21,666	5	272	12,298	29	1,246	13,573	3	15,588			
16	Tasikmalaya	0	0	525	0	0	527	0	0	875			
17	Cirebon	0	0	353	0	0	385	0	0	331			
18	Semarang	0	0	376	0	0	882	0	0	938			
19	Tegal	0	0	402	0	0	373	0	0	397			
20	Pati	0	0	282	0	0	396	0	0	322			
21	Purwokerto	24	0	465	0	0	404	0	6	345			
22	Surakarta	0	0	183	0	0	594	0	0	390			
23	Magelang	0	0	137	0	0	261	0	0	212			
24	Yogyakarta	0	0	272	0	0	231	0	0	223			
25	Surabaya	0	28	1,394	8	16	3,099	0	5	1,525			
26	Jember	0	0	873	0	0	783	0	0	816			
27	Malang	0	0	630	0	0	614	0	0	541			
28	Madiun	0	0	225	0	0	217	0	0	199			
29	Kediri	0	0	556	0	0	584	0	0	516			
30	Bojonegoro	0	0	187	0	0	270	0	0	271			
31	Pontianak	0	0	739	0	0	591	0	0	635			
32	Singkawang	0	0	254	0	0	435	0	0	473			
33	Pulangkaraya	0	0	107	0	0	77	0	0	52			
34	Bajamasin	0	0	233	0	0	273	0	0	274			
35	Samarinda	0	0	261	0	3	452	0	0	315			
36	Manado	0	0	1,378	0	0	968	0	0	1,071			
37	Palu	0	0	687	0	0	687	0	0	554			
38	U.Pendang	0	0	1,451	0	0	1,874	0	0	1,328			
39	Kendari	0	0	594	0	0	569	0	0	586			
40	Depassar	0	0	233	0	0	291	0	0	275			
41	Mataram	0	0	293	0	0	244	0	0	335			
42	Kupang	0	0	546	0	0	575	0	0	490			
43	Ambon	0	0	214	0	0	191	0	0	191			
44	Ternate	0	0	270	0	0	264	0	0	323			
45	Jaya Pura	0	0	253	0	0	234	0	0	234			
46	Sorong	0	0	260	0	0	246	0	0	221			
47	Dili	0	0	136	0	0	161	0	0	176			
	Total	32,424	111	19,469	20,779	122	23,844	23,216	118	20,224			
				52,004			44,745			43,558			

Table 3-9 Mass Number of Verification (Initial and Reverification)

Mass Total

No.	Branch Name	1990				1991				1992				Total
		Initial Verification		Reverifi- cation	Total	Initial Verification		Reverifi- cation	Total	Initial Verification		Reverifi- cation	Total	
		Domestic	Imported			Domestic	Imported			Domestic	Imported			
1	Banda Aceh	0	3	39,720	39,723	41,380	41,381	1	3	41,381	42,907	42,911		
2	Langsa	1	1	8,668	8,670	9,018	9,020	0	0	9,018	9,344	9,347		
3	Medan	14,961	44	108,403	123,408	108,473	118,528	46	98	115,250	115,250	125,562		
4	P.Siantar	3,600	2	24,759	28,361	21,775	25,675	6	1	21,943	21,943	25,434		
5	Padang	2	4	55,119	55,125	52,791	52,802	11	6	45,157	49,606	49,612		
6	Pekabaru	1	11	41,672	41,684	45,147	45,157	10	14	16,231	44,087	44,101		
7	Jambi	0	2	15,763	15,765	16,231	16,235	2	1	27,505	16,322	16,323		
8	Palembang	0	20	28,784	28,804	27,505	27,517	10	10	59,465	26,523	26,528		
9	Lampung	0	28	56,402	56,430	59,445	59,465	20	17	11,012	60,311	60,328		
10	Bengkulu	0	2	10,914	10,916	11,011	11,012	1	3	3,942	11,344	11,347		
11	Jakarta	3,422	3,204	92,412	99,038	2,815	96,211	3,131	3,959	3,942	97,928	105,829		
12	Bandung	5,613	329	176,097	182,039	7,852	187,635	324	233	7,176	177,987	185,396		
13	Serang	0	50	39,174	39,224	40,338	40,508	170	97	0	41,875	41,972		
14	Purwakarta	0	15	50,108	50,123	50,123	50,123	19	54	0	50,854	50,908		
15	Bogor	2,636	36	75,822	78,494	3,600	100,847	52	204	4,385	102,458	107,047		
16	Tasikmalaya	0	52	195,660	195,660	0	207,232	0	0	0	220,254	220,254		
17	Cirebon	0	57	125,137	125,189	109,981	140,942	15	3	140,957	143,546	143,549		
18	Semarang	111,152	0	126,964	126,965	0	142,001	73	151	123,638	172,804	296,593		
19	Tegal	0	1	126,964	126,965	0	142,001	11	11	142,001	148,090	148,101		
20	Pati	717,683	2	120,958	838,643	597,111	740,432	7	17	744,732	146,177	890,910		
21	Purwokerto	27	6	142,613	142,646	0	124,506	5	17	130,514	130,514	130,531		
22	Surakarta	199,923	261	198,790	398,974	240,738	440,639	311	312	238,084	198,412	436,808		
23	Magelang	110,987	7	129,096	129,103	0	140,861	0	1	140,861	142,657	142,657		
24	Yogyakarta	52,945	229	313,630	366,804	38,943	280,963	220	267	321,669	280,245	209,228		
25	Surabaya	0	4	271,517	271,521	0	275,348	8	9	275,361	267,109	267,109		
26	Jember	1,778	27	243,462	245,267	1,706	239,779	49	12	1,513	244,331	245,856		
27	Malang	0	7	131,437	131,444	0	139,716	6	2	139,722	137,949	137,951		
28	Madiun	0	6	171,996	172,002	0	172,912	10	3	171,240	171,240	171,243		
29	Kediri	0	1	60,314	60,315	20	91,957	5	6	91,982	92,813	92,821		
30	Bojonegoro	0	1	25,149	25,155	0	25,178	4	1	25,182	26,962	26,963		
31	Pontianak	0	6	13,501	13,501	0	16,080	0	1	16,080	17,167	17,168		
32	Singkarang	1	1	23,340	23,342	0	22,621	0	0	22,621	22,732	22,732		
33	Palmgaraya	387	12	61,669	62,068	110	66,318	7	14	121	63,555	63,690		
34	Benjarasin	0	2	29,408	29,410	0	31,681	1	4	31,682	37,767	37,771		
35	Samarinda	0	2	22,660	22,662	0	23,323	1	22	23,324	23,849	23,871		
36	Manado	0	1	14,583	14,584	0	15,973	8	4	15,981	17,952	17,956		
37	Pala	1	23	48,575	48,599	1	46,107	11	9	46,119	46,304	46,319		
38	UPandang	0	3	10,412	10,415	0	12,332	1	1	12,332	12,556	12,557		
39	Kendari	0	12	108,911	108,923	0	113,469	45	25	113,514	112,704	112,729		
40	Dempasar	0	6	46,747	46,753	0	49,600	0	6	49,600	56,694	56,700		
41	Mataram	0	2	16,825	16,827	0	18,464	0	0	18,464	18,407	18,407		
42	Kupang	0	0	7,124	7,124	0	8,457	0	0	8,457	7,975	8,004		
43	Ambon	0	0	4,855	4,855	0	5,010	0	0	5,010	5,102	5,102		
44	Ternate	0	0	9,315	9,315	0	9,865	0	3	9,865	10,099	10,102		
45	Jaya Pura	0	0	7,663	7,663	0	9,088	6	0	9,094	8,731	8,731		
46	Sorong	0	0	3,408	3,409	1	4,651	0	1	4,652	5,266	5,267		
47	Dili	1	0	3,778,111	3,778,111	0	5,060,670	4,620	5,594	1,253,856	3,983,666	5,243,116		
	Total	1,225,121	4,488	3,778,111	5,007,720	1,120,629	5,060,670	4,620	5,594	1,253,856	3,983,666	5,243,116		

Table 3-10 Mass-Weight of Verification (Initial and Reverification)

Mass-Weight

No.	Branch Name	1990				1991				1992			
		Initial Verification		Reverifi- cation	Total	Initial Verification		Reverifi- cation	Total	Initial Verification		Reverifi- cation	Total
		Domestic	Imported			Domestic	Imported			Domestic	Imported		
1	Banda Aceh	0	0	29,193	0	0	30,239	0	0	31,330	0	31,330	
2	Langsa	0	0	5,895	0	0	5,837	0	0	6,217	0	6,217	
3	Medan	3,503	0	73,919	1,270	0	74,264	1,956	0	79,749	0	81,705	
4	P.Siamar	614	0	15,060	761	0	12,162	606	0	12,454	0	13,060	
5	Padang	0	0	34,758	0	0	33,854	0	0	31,970	0	31,970	
6	Pekabaru	0	0	23,369	0	0	24,245	0	0	23,698	0	23,698	
7	Jambi	0	0	8,588	0	0	9,171	0	0	9,585	0	9,585	
8	Palembang	0	0	18,296	0	0	18,256	0	0	17,467	0	17,467	
9	Lampung	0	0	43,492	0	0	46,124	0	0	46,550	0	46,550	
10	Bengkulu	0	0	7,438	0	0	7,533	0	0	7,788	0	7,788	
11	Jakarta	0	0	67,371	0	0	66,435	0	0	73,261	0	73,261	
12	Bandung	4,671	0	133,388	6,690	0	132,112	5,447	0	129,464	0	134,911	
13	Serang	0	0	28,956	0	0	29,683	0	0	30,665	0	30,665	
14	Purwakarta	0	0	36,186	0	0	33,506	0	0	34,357	0	34,357	
15	Bogor	2,325	0	55,928	3,092	0	72,530	3,845	0	74,274	0	78,119	
16	Tasikmalaya	0	0	149,536	0	0	158,610	0	0	168,111	0	168,111	
17	Cirebon	0	2	94,046	0	0	105,059	0	0	103,036	0	103,036	
18	Semarang	13,197	0	100,074	14,934	0	119,281	12,308	0	131,236	0	143,544	
19	Tegal	0	0	100,297	0	0	110,915	0	0	115,727	0	115,727	
20	Pati	704,728	0	98,929	586,171	0	117,911	704,082	0	121,750	0	854,395	
21	Purwokerto	0	0	112,723	0	0	98,313	0	0	102,784	0	102,784	
22	Surakarta	129,042	0	156,650	170,859	0	329,445	157,749	0	155,317	0	313,066	
23	Magelang	0	0	104,639	0	0	113,476	0	0	116,879	0	116,879	
24	Yogyakarta	38,139	0	107,374	40,533	0	106,814	9,561	0	99,842	0	109,403	
25	Surabaya	41,173	0	252,169	36,127	4	236,274	30,034	0	226,647	0	256,681	
26	Jember	0	0	223,335	0	0	226,674	0	0	219,026	0	219,026	
27	Malang	0	0	198,161	0	0	194,854	0	0	198,434	0	198,434	
28	Madium	0	0	105,463	0	0	112,616	0	0	111,200	0	111,200	
29	Kediri	0	0	140,810	0	0	141,411	0	0	139,970	0	139,970	
30	Bojonegoro	0	0	49,653	0	0	75,012	0	0	75,755	0	75,755	
31	Pontianak	0	0	10,312	0	0	10,445	0	0	11,257	0	11,257	
32	Singkawang	0	0	7,533	0	0	9,077	0	0	9,716	0	9,716	
33	Palangkaraya	0	0	18,714	0	0	18,049	0	0	18,198	0	18,198	
34	Benjarmasin	313	0	50,413	0	0	53,863	21	0	51,800	0	51,821	
35	Samarinda	0	0	23,378	0	0	24,794	0	0	29,479	0	29,479	
36	Makassar	0	0	15,316	0	0	15,810	0	0	16,287	0	16,287	
37	Pala	0	0	9,789	0	0	10,657	0	0	11,988	0	11,988	
38	U.Pandang	0	0	35,083	0	0	33,729	0	0	34,184	0	34,184	
39	Kendari	0	0	7,193	0	0	8,395	0	0	8,630	0	8,630	
40	Dempasar	0	0	89,644	0	0	93,467	0	0	92,746	0	92,746	
41	Mataram	0	0	35,579	0	0	37,783	0	0	43,435	0	43,435	
42	Kupang	0	0	12,119	0	0	13,234	0	0	13,177	0	13,177	
43	Amboin	0	0	4,857	0	0	5,787	25	0	5,579	0	5,604	
44	Terate	0	0	3,510	0	0	3,754	0	0	3,767	0	3,767	
45	Jaya Pura	0	0	6,969	0	0	7,451	0	0	7,623	0	7,623	
46	Sorong	0	0	6,029	0	0	7,145	0	0	6,803	0	6,803	
47	Dili	0	0	2,641	0	0	3,597	0	0	4,004	0	4,004	
	Total	937,705	2	2,909,490	860,437	4	3,028,794	954,197	0	3,083,216	0	4,017,413	