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GAZETTEL

OF THE

Rare section BOMBAY PRESIDENCY



ŸOĻUMĘ XXV.

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BOTANY.

Un der Government Orders.

Hombuy: PRINTED AT THE GOVERNMENT CENTRAL PRESS. 1886.

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This volume contains the Articles named below :---

- "Useful Plants of the Bombay Presidency." By J. C. Lisboa, Graduate of the Grant Medical College, &c. &c.
- II. "Botany of the Bombay Presidency." By Surgcon MajorW. Gray, L.M., L. Ch. (Dub.).
- III. "List of Gujarát Trees." From materials supplied by G. H. D. Wilson, Esq., C.S., and Lieut.-Colonel J. G. McRae.

JAMES M. CAMPBELL,

August 1886.

PREFACE.

In placing in the hands of the public the Useful Plants of the Bombay Presidency, the writer does not claim for it the merit of originality, freely admitting that it is almost entirely a compilation from the various works on Indian Botany that have preceded it. Although nearly every botanical work has been availed of for his purpose, the writer has in the following pages directed references in the main to Brandis' Forest Flora of the North-West Provinces and Dalzell's and Gibson's Bombay Flora as being the two that are most handy and portable.

The timber trees are arranged in a regular botanical series, according to DeCandolle's system of classification, from descriptions which are found scattered in Balfour's *Timber Trees*, Brandis' *Forest Flora*, Beddome's *Flora Sylvatica*, Hooker's *Flora of British India*; and the writer's knowledge of the plants of some of the districts of the Deccan and Konkan,—like Mátherán, Khandála, Mahábaleshvar, Goa,—together with the dried specimens which he has from time to time obtained from other places, have enabled him to verify and correct these descriptions where necessary.

In describing a tree the writer has invariably given the coorr and arrangement of its flowers. This, coupled with the character of the other parts and the native names, will, it is hoped, enable the reader of ordinary intelligence to identify the various trees mentioned in the work.

The altitude of a tree has been given, not in reference to the highest point at which it is seen growing in this presidency, but to the highest point at which it is met with in India. Thus the Jámbul tree, which in Bombay is not met with higher than at Sindolla (Mahábaleshvar), has 5000 feet recorded against it, the tree being found to grow at Kámaon, which has the above height.

The heights and girths given in this work are all average measurements. It is very well known that both vary, not only in different places and under different circumstances of climate, etc., but even in the same localities, according to differences of soil, exposure to winds, etc. Thus the Jámbul, to which Brandis gives a 308-a height of 70-80 and sometimes 90 feet, is in exposed high situations such as Sindolla, towards and on the slopes of Lingmalla (Mahábaleshvar), but a stunted shrub, bearing fruit scarcely one-fourth the size of that found in the Konkan. *Hymenedyction excelsum* (Karwa, Dandru or Dandeli), which is a large tree in the plains, becomes smaller and smaller as we ascend the Gháts.

The flowering time (Fl.) and the seasons during which trees ripen their fruit (Fr.) are also subject to considerable variations: eg. Millingtonia hortensis, the Indian cork-tree, is in full bloom in Poona at the end of August, whereas in Bombay it is in flower a month and a half later. In the description of timber trees the writer has not been very precise in the use of some of the technical terms; nor has he, in the enumeration of the characters of timbers, made a distinction between sap and heart wood, as in a great majority of cases the one gradually merges into the other; and even where the difference is clear, it becomes inappreciable when the timber is not well seasoned, the colour white or yellow becoming brown, dark brown, reddish-purple, or black. As an illustration of the difficulty sometimes thus arising may be mentioned the fact that, with the exception of Dr. Brandis, who describes separately the sap and heart wood of the first species in the list, Dillenia Indica, no other writer on Indian timbers makes this distinction. The wood of the second species, D. pentaphylla, is described even by Dr. Brandis without an attempt at separating the sap from the heart wood.

The description of fruits, vegetables, food, and oil-yielding plants, &c., mentioned in other sections is very short; for their cultivation, the uses and consumption of their products in each province are described in various volumes of the Gazetteer, for which alone the present one is written. Besides, a considerable number consists of the common garden and field plants, which are or may be readily identified by their native names.

The idea of dividing the work into sections has been borrowed from Sir G. C. M. Birdwood's interesting work Vegetable Productions of the Bombay Presidency. The writer has, however, not only made alterations and additions to Sir G. C. M. Birdwood's sections, but has introduced several entirely new ones, such as "Plants mentioned in the Religious Books of the Hindus," "Plants or their Products used in intoxicating Fish," "Vegetable Poisons," "List of Herbs, Tubers," &c., used as food by the poorer classes of India during seasons of famine. The Indian medicinal plants are grouped together according to their properties and uses, the modes of preparation and administration being also briefly given. "Timber trees" occupy more than half the book, thus making the work, the writer hopes, far more useful for reference.

It now only remains for the writer to crave the indulgence of his readers for the irregularities and errors that must of necessity have crept into a work which has been written under failing health and in the short intervals of time snatched from the anxieties of his professional duties. If time and health are permitted him, the writer hopes to correct these errors in a second edition of the work.

Bombay, January 1886.

J. C. LISBOA.

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15.	PLANTS MENTIONED : USED IN RELIGIOU					279-292

ABBREVIATIONS.

Alt = altitude.

Fl.=flora; flowering time of a plant.

Fr. = time of ripening fruit.

T, T. = timber trees.

The other abbreviations will be easily understood.

.

ADDENDA.

Among "Religious Plants," in the last place, read -

Sarcostemma brevistigma, Dalz. & Gibs. Bby. Fl. 149. Soma.

"The Soma of the Vedas, its name being derived from the circumstance that it was gathered by moonlight by the ancient Hindus. They carried it to their homes in carts drawn by rams, and a fermented liquor was prepared by mixing its juice, strained through a sieve of goat's hair, with barley and ghee. This wine was drunk at all their religious ceremonies, and was used as an intoxicant by the rishis, who, in the golden age of Hinduism, combined it at their meals with beef."—Birdwood.

Roxburgh says :-- "This plant yields a larger portion of very pure milky juice than any other I know; and, what is rare, it is of a mild nature, and acid taste. The native travellers often suck the tender shoots to allay their thirst."

S. brevistigma grows at the foot of Mahábaleshvar and in various other rocky places in India. Whether it is the true Soma of the Veda or a substitute for it introduced in modern times, is difficult to say; but the description of Soma (Zend., Homa) given in Ayur-Veda as translated by F. Max-Muller points to a plant of the genus Sarcostemma.

We have in India, besides the above-mentioned plant, Sarcostemma intermedium and S. Brunonianum; the latter, eaten as salad by the natives, is found in the Deccan ascending to 4000 feet on the Neilgherries. Some dry twigs, sent to the writer by Mr. Kursetji R. Cama, of what he calls Homa slightly resemble those of this species and of S. intermedium.

S. Stocksii grows in Sind.

There is another leafless asclepiad, *Periploca aphylla*, which is common in Afghanistan, ascending to 3000 feet on the mountains of Persia. Whether it possesses acid juice is not known.

Since writing the above, the twige used as *Soma* have been identified as belonging to *Ephodra vulgaris*, of Gnetaceæ, which is found on dry stony hills in Afghanistan, Beluchistan, parts of the Himálayas, Jhelam, Chenab, and Sutlej; also at Khamaon and inner Sikkim. ERRATA.

Page	Line.	For	Røad
1	3	of their leaves.	of their flowers.
2	13	and are eaten	and is eaten
,, ,,	35-36	Flowers brown tomentose, axil- lary,	
,, (41	jarge,	large,
3	42	stock	stalk
4	33	21-3 in., thick	21-3 in., linear-oblong, thick
	37	about 1-1 in.;	about ½ m.;
6	9 9-10	5-lobed,	5-valved,
9	9-10	but it is chiefly	contain a large but they are chiefly
	23	galls as mordant.	galls as a mordant.
•••	32	sagittate, purple. Female	sagittate. Female
••	48	Stamens 10,	Stamens 8 or 10,
10	30	hermaphrodite, larger, terminal	
	42	aril, succulent.	aril succulent.
\mathbf{n}	25	of yellow juice	of a yellow juice
,,	41 46	but does not . of yellow	but do not of a yellow
12	28	are somewhat shorter,	or somewhat shorter ;
13	47	gnn-sticks,	gun-stocks,
14	2	Oblong-lanceolate	ob-lanceolate
	49	13-21 in, long,	13-21 in. long by 1-2 in.,
15	5	resembling Spanish	resembling the Spanish
•,	· 17	7-nerved.	7-nerved, petiole 1-3 in.
32	20	7-14,	7-10, size close to
16	-38 - 43	size, close to Bractcoles	Bracteoles
,,	45	clodded	clothed
17	8	and is said	and are said
 94	26-27	each bearing	each division bearing
**	30	Capsule 6-7 in.,	Capsule 4-6 in.,
	43	scabbard	scabbards
18 19	12 1	leaflets 3-4 villous. Styløstalked, curved.	leafiets 5-7 villous. Ovary stipitate. St
20	23	(also called Katira)	curved. (also called Kati Vide p
	24	but not	line 19) but is not
21	10-11	numerous, small, surrounding	numerous, surrounding
22	2-3	Campanulate, urceolate,	Campanulate or urceolate,
,,	4	anthers, with 2	anthers, each with 2
+3	28	claws;	claws, Longer 3.6
	46	Leaves 2-6 Phernenum	Leaves 3-6 P. Heyneanum
23 24	40 32	P. heyneanum yellow on peduncle	yellow, on peduncle
	50	5-7 by 4	5 by 4
25	20	gun-sticks	gun-stocks ·
••	22	Budjari-dha-mun.	Budjari-dhamun.
26	26	3-antheriferous	8-antheriferous
	45	lilizefolia Orany 4 collect	tıliæfolia Ovary 2-4-celled,
27	8 26	Ovary 4-celled, Fihres	Fibres
**	30-31	Cordate or broad ovate, rotun-	Cordate, broad-ovate or rot
		date, Florenze Lin	date, Flower 1 1 in
28	35	Flowers in. obovate and	Flowers 1-1 in. obovate, obtuse at the apex :
29 30	31	yellowish-green,	yellowish-white,
31	19	2 in.; oblong-	2 in.; ovate, oblong-
	39	dots,	dots ;

в 305-6

ERRATA.

'aze.	Line.	For	Read
31	40	yellowish-green,	yellowish-white,
32	7	For. Fl. 46.	For. Fl. 48.
33	16 6	Style thick	Style slender,
"	9	obtuse, notched, Flowers ½ in.	f obtuse or notched, Flowers $\frac{1}{2}$ -1 in.
,,	11	Stamens 10,	Stamens 8-10,
"	16	1-2-celled;	1-2 celled by abortion ;
"	18	Panvar	Parvar
3 4	34	10, 1-1 in.	$8, \frac{1}{3} - \frac{1}{2}$ in.
•	32	10-12, inserted	10-12, usually 10, inserted
35	12	racemes,	panicles.
	43	broad falcate-	broadly falcate-
36	19 46	nearly 3 lin.	nearly 4-5 lin.
37	34	4-5 small, 1 ¹ / ₂ -1 ¹ / ₂ in.	4-5, usually 4, small, 1-14 m.
40	1	obtuse, obscurely	obtuse, aessile, obscurely
••	3	Flowers subsessile,	Flowers minute, subsessile,
•,	6	large. Drupe	large, wanting in male
,,	30-31	3-4, much	dowers, Drupe 3-4, usually 3, much
41	28	M. azedarach,	Melia azedarach,
42	31	l žin.	g in.
•,	32	puberulous panicles.	puberalous or glabrous panich
43	34 7	hairy	hases or white tomentose.
70	27	than the leaves. globular.	globu ar; anthers 6.
.,	48	stamens	and ere
2.	52	seeds 3-4 covered	ser covered
44	5 13	as firewood. small, white,	for newood, sn(1), 4, rarely 5-mero)
			white,
,,	$\frac{24}{36}$	Leaflets 1-4	Leadicts ternate, 1-4
	42	fish; and the fish . oblong,	fish, the fish ob ong or lanceolate,
,,	46	Petals 5,	Pet 1 5.
	48	10,	10, > 1+ y 8,
45	23	Flowers greenish-	Flore bout in greensh
"	48 49 -	terminal axillary Calyx 5 dentate.	terr to and axillary
46	21	beneath, on a rather long pe-	Calge ' 5-dentate. ben ath; base obtuse on a rath
		tiole	lorg petiolale.
	52	on long villous	on short villous
47	3 19	with 8 ovales	with about 8 ovules
48	28	silky pubescence Wightiana.	silky pubescent Wightiana, Dalz. & Gils Eb Fl 143.
70	30	ovate elliptic or	ovate elliptic, narrow oblong
49	29 44	peduncles longer	peduncies somewhat longer
50	16	former as a Xylocarpus	former is a
51	2	Sepals 4,	Xylopara Sepals usually 4,
"	22	ovoid, unarmed	ovoid, apiculate, unarmed
" -	37	long, pari-pinnate	long, normally pari-panate
"	43 45	Petals covered	Petals 4-5, covered
52	6	hairs. Fruit and the uses	hairs. Stamens S. Fruit and their üses
••	36	Stamens 6-8 ;	Stamens 6-8-10;
53	44	Drupe compressed,	Drupe slightly compressed,
54 54	12	but durable	durable
55	47	by <u>}</u> in., . short.	by 11-1 in.,
17	48	1 in.	shorter. }.] in.
	14	Stamens 4.	Stamens usually 4
5 6	22	sweet oil	Compense nonshity a

Page	Link	For	Read
56	32	much-branched	sparingly branched
11	49	sub-opposite,	sub-opposite elliptic,
57	31	used as	used as a
58	37 16	have much	have a much
-	34	Corolla 1-2 in. 1 ft. or more	Corolla j-j in. 1 ft. long or more
59	10	with yellow	with a yellow
"	22	largest,	larger,
.,	23	cuspidate,	cuspidate at the apex,
,,	27	long; the blade 1 in. broad;	
		wings and	
•,	29	blackish, 1-8	blackish, with 1-8
,,	31	Polynasia.	Polynesia.
"	44	in petiole	on a petrole.
	47	base, larger, as long	base, as long
60	25	3-4 lin.	3-4 lin. or longer.
61	- 52 - 8	by 1-1 in.	by to 1 in.
62	10	5.7 obtuge	5.7 allintia obtuse
	14	5-7, obtuse, articular.	5-7, elliptic obtuse, orbicular.
63	23	Pod 3-7 in	Pod 3-7 by 1 in.
64	18	Bby. Fl. 82	Bby. Fl. 83
65	16	by 1 in.,	by <u>1</u> 1 in .,
"	28	pinnæ 2;	pinnæ 2 with a raised gl between;
,,	30	dense peduncled heads	dense heads
	50	scarlet red, shining,	scarlet, shining,
66	•44	Leaf-tachis	Common petiole
67	37	tomenotsa	tomentosa.
"	44	with a bract	bracted
68	4	leaflets	leafless
	26 27	Deaf-rachis 1 ft.	Common petiole 1-1 ft.
	46	and several smaller Leaf rachis glabrous or pubes-	and smaller Common petiole glabrous,
- "	10	cent,	·
69	7	Bed.	Bed. Fl. Sylv. t. 51.
,,	10	Leaf-rachis	Common petiole
,,	10-11	on the common petiole	on it
,,	12 •	1 1-1 in.	1 -1 in.
	27	1-21 in.	4-21 in.
"	32	Pod 1-2.	Pod 1-2.
**	42	Pinnæ 6-16,	Pinnæ 6-8,
-"	43	in.	g-lin.,
70	12-13 31	Flowers white	Flowers yellowish white
"	46	reddish-brown	brown
**	48	ż in., velvety, pubescent.	1-1 in., pubescent.
71	33	Calyx a line long.	Calyx half a line long.
72	7	Hook. ; Hook.	Hook
,,	8	Bby F1, 82	Bby. Fl. 89.
,,	14	limb 10-12	hinb with 10-12
,,	16	<u>, 1-11</u> , · · ·	; fruit 1-11 in.,
,,	41-42	Leaves shortly, oblong-elliptic	
		or oblong lanceolate.	acuminate
"	· 50	smoothish.	smoothish, with 6 promu
	60		angles.
73	32	at the base, often	at the apex, often
74	53	Fl. 91	Fl. 223
74	2	acute and .	acute at the apex and
75 76	47 16	dense, terminal, forming	dense, forming
		on hedges 30-30	m hedges
"	35	during the whole of the	30-35 during the
77	11	cordate at the apex	during the cordate at the base
78	6	malaccenses	malaccensis
	18	1	1-1

ERRATA.

Page	Line	For	Read
-		11:-	11 i
78	20 28	I-1/2 in. For. Fl 225	11 in. For, FL 235
79	20	the leather	leather
	22	Linn.;	Roxb. ;
80	8	arhitish	whitish
82	28	$\frac{1}{2} \cdot \frac{1}{2}$ in.	$\frac{1}{2} - \frac{1}{2} \ln t$
84	21 27	II, 27-	111. 27 11 in. diam. and four
.,•	40	l in. diam., four Calyx 1½ in	Calyx r_{12} in.
••	48	ripens; fruit	ripens fruit
88	15	make	makes
	50	FI 139	FI. 138.
91	35	12.	6-8 Linn., Brand. For. Fl. 293.
,	46	Linn ; Dalz Bly. F1. 293	Bby. Fl. 140.
92	24	petiole 1-1 in.	petiole 1-1 in.
93	42	8 stamens,	8 staminodes ;
95	21	terminate,	turbinate,
96 07	30	For Fl. 301.	For. Fl. 300.
97	6 10	Leaves 3-4 in.	Leaves 2-4 by 2½ in. about ½ in.
"	21	about 1½ in. in pari-pinnate	imparipinnate
,, ,,		with the old one	with an odd one
,,	••	3-4 m.,	3-4 in. by 2.
	26	Corolla 1 in.	Corolla ‡ in.
99	31 45	1 in. long	j in. long, divaricate,
100	48	l divancate, 1-11 ft. long,	1-2 ft. long
	49	about 1 in.	about 1-1 in.
101	10	4-8 by 21-31 in.	6-12 by 21-5 in.
	12	1-14 in.	1-2 in.
102	19	leaves soft pubescent	leaves sparingly soft pubew cordate
103 104	19-20 21	almost orbicular, cordate Leaves 1-2 ¹ / ₂ ft.	Leaves 2-3 ft.
,,	25	3-34 in., long,	3-31 in. long,
,,	,,	pure, white	pure white,
,,	39	3-4 in.,	3-4 by 1 ¹ / ₂ in.
105	8	leaflets 2-3 pair	leaflets 2-3 pair with an a leaflet;
- -	12	10-14 by 3-4 in.	10-14 by 3 8 in.
** **	23	petioles 1.2 in.	petioles 1 in.
,,	37	2-21 by 11 in.	41 by 2 in.
•,	46	Hook.; Dalz.	Hook.; Bignonia Xylocar
100		smooth. Seeds	Dalz. smooth. Capsule 1-21 ft lo
106	4	smooth. Secus	woody. Seeds.
,,	14	Leaves 12-24,	Leaves 12-24 in. long,
,,	16	petiole	petiolule
	21	by 3-4 in.	by # in.
109	25 41	clothing alternately	clothes alternate,
111 112	41	Leaves 3.9	Leaves 5-9
,,	46-47	Fruit somewhat like an acorn,	Fruit oblong,
		oblong,	
"	47	cup.	cup, size of a pea, red w
114	11	Leaves 6-12.	ripe. Leaves 6-12 in. long,
,,	25	Leaves 6-12 in.	Leaves 4-6 in.
115	17	3-8 lin.	3-18 lin.
.".	44	myrobalan	myrabolan
116	21	numerous-fascicled,	numerous, fascicled, Glochidion
"	31 44	Golchidion' DeCandolle,	DeCandolle Prod.,
4ï7	12	This tree	This shrub
118	16	peduncle	petiole
	41	densely, rufovillous	densely ratovillous,

~		•	
e age	Line.	* For	
	·		
121	35	and destitute	and is destitute
122	. 7	They yield	It yields
"	15	Leaves 4-9	Leaves 4-7.
	46	evergreen ree	evergreen tree
123	38	R. decocca	R. dicoca
<u>12</u> 1	42	Cleidon	Cleidion
	46	stamens 10-14 in , 285 ; Brand.	stamens 10-14, in 285 , Dalz. & Gibs Bby F
**	1 10	2009, Dialat.	228; Brand
125	16	found run wild	found wild
,,	24	Khuna.	Khinna, udá.
,,	43	Hurna.	Hura.
126	14-15	Cenocephalus	Conòcephalus
••	17-18	sinuate.	serrate
127	20	sides with minute red dots;	sides ; petiole
		_ petiole	
130	21	Female axillary	Female solitary, axillary,
128	14	Bby. Fl. 224	Bby. Fl. 244
129^{-1}	21	unto trunk Leaves 4-8 in	into trunks
••	45 47	2-3 m.	Leaves 4-8 by 2 4 in.,
130	• 34	U. bengamonium,	U. benjamineum,
132	6	Flowers greenish,	Flowers greenish-white
		deciduous	dioicous
» »	15	Holoptelea	Holoptelæa
	44	Samaloid caleopsys	seeds
133	20.	in the gunpowder	in gunpowder
,,	28	absolutely	obsoletely
.,	39	and the poles	and poles
134	31	greenish .	greenish-yellow,
135	4	reddish-yellow	orange-yellow
,,	24	brownish, stinging	brownish, with an acrid stin
100			ing pulp
136	46	sheaths striated	sheaths of branches striated
,; 137	51	2-8-flowered	2-5-flowered
	6 20	wottle 8-12 m.	wattle
,,	20	Caryopsys	8-12 lin.
"	43	at the margin	at the top
138	2	sheaths striated	sheaths of shoots and youn
			culms striated
1,	5	sheaths hirsute.	sheaths of leaves hirsute.
	17	wottle work's	wattle works
141	45	members	readers
142	52	cases had lasted	cases the symptoms had lasted
	55	members	readers
* *	6	and 18	and are
155		that	that the
156	23 15	Eribotra the stieams	Emobotrya -
158	29	some of the Indian hotanists	streams some Indian botanists
161	10	the substitute	a substitute
162	34	Coffea suberica	Coffea Iberica
163	34	Mychrothyneus	Microrhynchus
166 -	6	in a small	in small
168	4	Sirvan	Sewan
170	2i	is only	only is
172	2	and has	has
173	22	vitez.	vitex
174	5	azadarach	azedarach
۰,	13.14	Belgaum	(Belgauń)
	29	desert	dessert
175	3	yield	yields
182	2	Milit *	Melet.
	13	endomic	indigenous
» ·	17	acres	acris

Page	Line	For	Read
182	18	Tontanesii	Fontanesu
183	10	Thyphinæ	Typhacea
185	18~	over	on
188	2	20-50 ft.	30-50 and even 70 ft.
191	20	toxicana	toxicaria
193	6	on	in
196	39	are	and
198	1	over tropics	over the tropics
199	19	preparatim	preparation
200	26 40	Caetaceæ	Cacteæ Glossocardia
$\frac{200}{205}$	40 54	(flossocardi form	forms
$\frac{205}{206}$	3	mucilagenous	mucilaginous
200	16	of arum	of the arum
	19	above	before
"" ""	38	follow	follows
208	12	root	roots
218	14	yield	yields
221	16	a useful	an useful
227	37	In passing	On passing
228	34	G. acurminatum	G acuminatum
235	35	half of it stuff	half stuff
237	31-32	and the footstalks	the footstalks
239 241	3 35	stem Melia azadirachta	stems Azadırachta Indica
241	38	yields	yield
242	4	Shor	bor. The bark is used
	T		tanners as a dye stuff.
,,	5	Guti	Guti. The bark and funt a
		-	employed for tauning and f
			making blacking
~"	last	Wrighta	Wrightia
243	19	Dalz. & Gibs Bombay Fl.	Bedd, Fl. Sylv. t. xxii.
245	3	myrabalans	myrabolans
247 255	38 29	dye	dry.
258	29	on are given	in given
262	16	of	given as
,,	11	Exacuum	Exacum
265	38	for variety	for a variety
273	8	Myrsineæ	Omit the word
276	8	gurat	guvat
,,	12	Spicillaria	Penicultaria
,,	last	in the cattle	in cattle
283	, 30	on page	at page
286]	42	over the doors	over doors
	48	Eloecarpus	Elæocarpus
292	19	gometti	gametta
"	20 21	dol of cobra his	Idol of a cobra ite.
,,	41	1110	1 ALC.