

TEA GERMPLASM AT CSIR-IHBT

Volume-I



Sanatsujat Singh
Ashok Kumar



सी.एस.आई.आर- हिमालय जैवसंपदा प्रौद्योगिकी संस्थान
पालमपुर – 176061 (हिमाचल प्रदेश)
CSIR-Institute of Himalayan Bioresource Technology
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Foreword

Tea is one of the major health beverage consumed across the globe. Tea has gained importance as a commercial commodity for foreign exchange in many countries. Tea grown in Himachal Pradesh is popularly known as 'Kangra Tea', due to its distinct flavor and quality. Botanically, 'Kangra Tea' is *Camellia sinensis* ($2n= 30$) China type which is different from "Assam" and "Cambod" types. Over the years, a broad gene pool of tea has evolved due to its cross-pollinating breeding behavior resulting in generation of various intermediate hybrid types with potential to improve tea productivity. However, it did not help in widening the genetic variability of tea because practices were mostly restricted to the selection of elite mother bushes and their propagation as clones. Thus, organization of tea germplasm resources is vital for selecting desirable variations for integration in breeding programs and for sustainable use in the future.

CSIR-IHBT is constantly striving to improve the status of Kangra tea. The germplasm established at the tea garden of the Institute has 187 accessions collected from Himachal Pradesh, Assam, Darjeeling, Tamil Nadu and Uttarakhand. Breeding programs have been initiated to develop location-specific cultivars for high yield, better quality, and blister blight resistance. A tea descriptor database has been developed for all the unique tea clones of the country taking into consideration the morphological, biochemical and molecular characters. CSIR-IHBT has also developed technologies for improving the quality parameters of tea. Technical information generated by the institute helped in getting Geographical Indications (GI) of Kangra tea. Keeping in view the market demand, value-added products like ready to serve tea concentrates, tea catechin and tea wines have been developed.

The present book entitled, '**Tea Germplasm at CSIR-IHBT Volume-I**' is an attempt to highlight the distinctive features of Kangra tea clones. Tea accessions are enumerated in a simple manner by highlighting key morphological and quality traits. Text is supported by illustrations of leaf and floral morphology of each accession to emphasize variations among germplasm lines. Organization of tea germplasm resources will facilitate a wide range of evaluation studies with respect to the western Himalayan tea morphology, vigour, propagation, resistance to diseases and insect pests, quality and adaptability to various climatic variations. I believe this compendium will form an important base for research and development in tea.

Sanjay Kumar
Director
CSIR-IHBT, Palampur

Date: July 3, 2020

Preface

Kangra Tea (*Camellia sinensis*; 2n= 30; China type) is a unique bioresource of the western Himalayan region which is distinct from tea grown around the world because of its flavor and high quality. On account of cross pollinated breeding behavior in tea a broad gene pool has evolved resulting in diverse forms with wide range of variability. Therefore, to maintain the gene pool of Kangra tea, Institute of Himalayan Bioresource Technology made collections from the tea growing regions of Kangra valley. Further, to sustainably utilize the germplasm resources, work on tea breeding is being undertaken at our Institute with the aim to improve the tea productivity, quality and resistance to diseases.

There are large continuous variations among the genotypes from one extreme to the other extreme, so multivariate clustering approach was utilized to organize the tea germplasm resources. On the basis of leaf size, germplasm accessions were differentiated into phenotypic groups, where the leaf size varied from large (9 cm) to small (5cm) as compared to very large leaf size in case of Assam types. Internode length in tea was also studied which is an important selection parameter influencing the plucking ability with more preference given to clones with large internode length by the tea pluckers due to ease of plucking, particularly in China type tea to avoid occurrence of loose leaf which lowers the quality of plucked crop. Significant differences were also obtained for shoot density which has direct bearing on productivity of tea clones. The ensuing breeding programmes need to evaluate shoot density along with leaf size parameters for increase in the leaf yield of genotypes.

Significant variations were observed for the different catechin fractions which differentiated the germplasm into distinct groups. High total catechin content has been associated with high quality potential of black tea. Based on these attributes the Institute has developed a high yielding clone of tea in the name of 'HIMSPHURTI' which has consistently performed better than the control over years and is rich in quality attributes viz., aroma, astringency, briskness and brightness. The germplasm was also screened under field conditions for resistance to blister blight disease which is an economically important disease of tea plantations in North India. The resistant genotypes identified are SA06 and BS 26. Also we have made selection for new variations such as Anthocyanin rich tea accessions which have been evaluated on morphological and chemical basis. This book provides the glimpse of diverse tea forms which can be utilized for breeding new tea clones as per future requirements.

The authors express their deep sense of gratitude to the Director, CSIR-IHBT, Palampur, Dr. Sanjay Kumar for his encouragement to conserve the unique diversity in tea, providing all necessary facilities and support for establishment of tea germplasm resources and motivation to bring out this publication. We are thankful to Dr. R.K. Sud for providing background information about different tea collections and clones. Thanks are due to colleagues of the institute for the help rendered during the course of manuscript preparation. We are grateful to photographer, Mr. Pabitra Gain for designing cover page of this book. CSIR is duly acknowledged for the financial support to different R&D projects related to tea at CSIR-IHBT, Palampur.

**Sanatsujat Singh
Ashok Kumar**

Date: July 3, 2020

Abbreviations used

EC	Epicatechin
ECG	Epicatechin gallate
EGC	Epigallocatechin
C	Catechin
TC	Total catechin
EGCG	Epigallocatechin gallate
BS	Banuri selection
BGP	Banuri germplasm
TV	Tocklai vegetative clones
UPASI	The United Planters' Association of Southern India
AV-2	Ambari vegetative-2
IHBT	Institute of Himalayan Bioresource technology, Palampur
RHS	The Royal Horticultural Society (RHS colour chart)
CEF	Chari Early Flusher
CPF	Chari Prolonged Flusher
HV	Happy valley
KNJ	Kumaon June
TRI	Tea Research Institute, Jorhat, Assam
TRA	Tea Research Association, Tocklai
T-78	Tukdah 78
TS	Tocklai bicolonial seed stocks
TTL	Tata Tea Limited

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Introduction

Globally, tea is considered as one of the most popular non-alcoholic low cost beverages and as a health drink which is consumed by almost all sections of the society. Presently, the main tea producing countries are India, China, Sri Lanka, Japan, Bangladesh, Indonesia, Thailand, Vietnam, Kenya, Malawi, Rwanda, Uganda, Zimbabwe, Argentina, Brazil, Iran and Turkey and tea is an important source of revenue for these countries. At present, India is the second largest producer in the world with a production of 0.8 million tonnes of made tea which is one fourth of global tea production and most of the production in India is being consumed internally (FAO, 2009). In India, tea is the cheapest and most popular beverage and over one million people are employed in its production. Tea is grown in geographically and climatically distinct regions of the country mainly in the states of Assam, Tamil Nadu, Kerala, Karnataka, Uttarakhand, West Bengal and Himachal Pradesh and has also been introduced in states of Arunachal Pradesh, Meghalaya, Nagaland, Sikkim and Odisha (Barua, 1989).

Botany

Botanically, *Camellia sinensis* (L.) O. Kuntze is a evergreen woody plant of the genus *Camellia* in the Theaceae family, native to southern China. The family Theaceae consists of 30 genera and about 500 species of which tea is the most important plant. Even though some taxonomical problems with the dual nomenclature of tea i.e., *Thea* or *Camellia* exist, today it is botanically referred to as *Camellia sinensis* (L.) O.Kuntze - the China type ($2n=30$), *Camellia assamica* (Masters) Wight - the Assam type and *Camellia assamica* ssp. *lasiocalyx* (Planch ex Watt) Wight – the Cambod type. All the three types of tea hybridize with each other resulting in many intermediate hybrid types. The growth habit of tea is in form of shrub or small tree, but cultivated tea is maintained as a low bush in a continuous phase of vegetative growth. The leaves of tea plants are simple, alternate and serrate. Flowers are bisexual and regular with sepals 5-6 and petals 5-8. Stamens are many and anthers are two celled. Ovary is superior with 2-4 locules and ovules are 2-4, rarely solitary and with axile placentation. Fruit is a capsule. The commercial part of the plant is the young shoot with apical bud and two juvenile leaves (Barua, 1989).

The germplasm resources of tea consist of cultivated species or varieties, non-cultivated or wild species and genera, weedy relatives, old seed *jats* or land races, improved clones and seed stocks and breeding lines/hybrids. In the hybrids, considerable species introgression has also taken place. Though Yunnan province in south-west China is considered to be the center of origin of *Camellia*, where maximum genetic diversity and most of the species are found, and north-east India bordering Burma is the origin of Assam type plant, where maximum diversity in tea with respect to genetical and morphological characters are found. Besides *Camellia sinensis*, several other *Camellia* species, viz., *C. caudata*, *C. caduca*, *C. irrawadiensis*, *C. taliensis*, *C. kissi*, *C. drupifera* and related genera like *Eurya*, *Pyrenaria*, *Schima* and *Gordonia* are also endemic to this area. Most of these are found in hilly regions of north-east India. It is highly desirable to conserve the diverse genetic resources of the tea for further improvement of crop, therefore, efforts are required on sustainable basis to conserve the tea germplasm resources world over posterity and future use.

Origin and Distribution

Tea plants are native to East and South Asia and probably originated around the point of confluence of the lands of northeast India, north Burma, southwest China, and Tibet. Tea-drinking originated in China and despite its extensive use in China and later in Japan, it did not spread to other parts of the world until about the middle of the seventeenth century. In India tea was introduced from China in the middle of the nineteenth century and for many years China tea seed was imported regularly into India and plants were grown in Upper Assam, Dehradun, Kangra, Kumaon and the Nilgiri hills. Almost at the same time, with the discovery and introduction of Assam type of tea plants in India, the tea industry got great impetus and tea cultivation spread to different parts of the world. The China type of tea spread to cold climatic regions (Japan, Korea, Turkey, Georgia and foot hills of Himalayan regions in India) while Assam type of tea was very successful in the tropical and equatorial regions of the world and spread to Sri Lanka, Indonesia, Brazil and number of African countries.

Characterization of Germplasm Resources:

The morphological characters of selected accessions were documented in the format following the tea descriptors developed by IPGRI (1997). To analyze the variations among these accessions, five quantitative morphological characters were selected from the descriptors viz., leaf length (cm), leaf width (cm), ratio of leaf length: leaf width, internode length (cm) and shoot density (number of shoots/ square foot) which show high degree of variation and also contribute to yielding ability of the plant. All the data were recorded during the first flush season commencing in the month of March. Leaf size was observed to be highly polymorphic character and was assessed using variables leaf length, leaf width and ratio of leaf length: leaf width observed on mother plants. Large leaf size contributes significantly to the increased photosynthetic efficiency of the plant and is considered to be an important yield parameter in tea. Earlier studies propose positive correlation of leaf size and yield. The tea populations world over are classified as different jats (populations) based on the leaf size and shape characters which give a distinctive identity to each type. China type tea plants are referred to as low jats having leaves that are narrow, short with dull and flat laminae as compared to the Assam and Cambod types which have larger leaves.

As in the case of leaf size and shoot density which are indicators of yielding ability of tea genotypes, the catechins content in tea shoots are an indication of tea quality of a clone. Total catechins were estimated by spectrophotometry, while the catechin fractions (epi-gallo-catechin (% EGC), epi-gallo-catechin gallate (% EGCG), epi-catechin gallate (% ECG), epi-catechin (% EC), catechin (% C) and caffeine content (%) were evaluated using HPLC. Tea shoots comprising an apical bud and subtending two leaves were harvested from the Institute's tea experimental farm for the chemical characterization work.

The tea germplasm resources at CSIR-IHBT comprise 187 tea accessions (26 Assam, 5 Cambod and 156 China type) representing germplasm of Himachal Pradesh, Assam, Darjeeling, Tamil Nadu and Uttarakhand. The accessions have been categorized on the basis of leaf size, internode length, shoot (two and a bud) traits, shoot density, floral traits and quality parameters (catechins and caffeine contents). On the basis of morphological traits, 28 accessions have large leaf size (>9 cm leaf length) and 98 accessions have high shoot density (>40 shoots/sqft). Dense pubescence was observed in 34 accessions, 50 accessions were early flushers, while 31 accessions had purple shoot colour (two and a bud). On quality basis, 70 accessions recorded high total catechin content (16.0 to 25.3%) and 27 accessions had low caffeine content (<2.0%), while 67 accessions had high caffeine content (5.0 to 6.9%). The list of different germplasm accessions as per their morphological and quality traits are listed in Annexures I-VIII.

Map of Tea Experimental Farm at CSIR-IHBT Campus



Map of Tea Experimental Farm, Banuri



Germplasm Block A



List of accessions in Germplasm Block A

S. No.	Germplasm code	S. No.	Germplasm code
1	TS-379	15	TV-20
2	TS-449	16	BS-47
3	Kangra Jat	17	TV-16
4	TS-464	18	TV-25
5	TS-462	19	TV-17
6	TV-18	20	UPASI-03
7	UPASI-09	21	BS-29
8	RYDAK-1	22	BS-49
9	TV-23	23	Kangra Asha
10	T-78	24	BS-54
11	CR-6017	25	BS-68
12	TG-270	26	Khilpat-15
13	TV-19	27	BS-24
14	AV-02	28	BS-55

Germplasm Block B



List of accessions in Germplasm Blocks B

S. No.	Germplasm code	S. No.	Germplasm code
1	BS-46	9	BS-65
2	Banuri Jat	10	CR-6017
3	BS-97	11	BS-68
4	BS-51	12	T-78
5	BS-63	13	BS-32
6	BS-54	14	BS-26
7	BS-61	15	BS-39
8	BS-83		

Germplasm Block C



List of accessions in Germplasm Blocks C

S. No.	Germplasm code	S. No.	Germplasm code
1	BS-76	13	BS-44
2	Banuri Jat	14	UPASI-15
3	TV-2	15	BS-53
4	CR-6017	16	TV-5
5	T-78	17	BS-09
6	UPASI-2	18	UPASI-11
7	BS-12	19	BS-85
8	TV-26	20	TV-12
9	T-383	21	UPASI-18
10	TV-4	22	BS-64
11	UPASI-6	23	UPASI-13
12	BB-668		

Germplasm Block D



List of accessions in Germplasm Block D

S. No.	Germplasm code	S. No.	Germplasm code	S. No.	Germplasm code
1	BS-75	25	BS-03	49	BL-9/3/76
2	BS-37	26	BS-54	50	TV-03
3	BS-58	27	BS-110	51	BS-109
4	BS-80	28	BS-42	52	BS-79
5	BS-38	29	BS-56	53	BS-71
6	BS-18	30	BS-103	54	BS-104
7	BS-81	31	BS-69	55	BS-95
8	BS-52	32	BS-02	56	TH-09
9	BS-44	33	BS-43	57	TV-22
10	BS-70	34	BS-66	58	BS-99
11	BS-62	35	BS-34	59	BS-107
12	BS-14	36	BS-16	60	BS-106
13	BS-76	37	BS-01	61	BS-77
14	BS-90	38	BS-21	62	TH-03
15	BS-31	39	BS-86	63	Teen Ali
16	BS-50	40	BS-96	64	CS-303536
17	BS-74	41	BS-102	65	BS-13
18	BS-85	42	BS-92	66	BS-67
19	BS-91	43	TV-13	67	BS-108
20	BS-07	44	BS-93	68	BS-89
21	BS-48	45	BS-60	69	BS-05
22	BS-08	46	BS-105	70	BS-19
23	BS-23	47	BS-40		
24	BS-11	48	BS-06		

Germplasm Block E



List of accessions in Germplasm Blocks E

S. No.	Germplasm code	S. No.	Germplasm code
1	Kangra Jat	12	Mansimbal-12
2	Sidhbari-05	13	BGP-73
3	Khalag-04	14	Kangra Jat
4	Lahla-1	15	Mahal Pat-02
5	UPASI-09	16	Baijnath-04
6	Raipur-02	17	Mansimbal-08
7	BGP-63	18	BGP-66
8	HV-39	19	Khalag-02
9	Hoodle-01	20	Khalet-05
10	Mansimbal-07	21	Sidhbari-01
11	Raipur-03	22	Bhattu-22

Germplasm Block F



List of accessions in Germplasm Block F

S. No.	Germplasm code	S. No.	Germplasm code
1	BGP-156	15	BGP-133
2	BGP-118	16	BGP-121
3	BGP-122	17	BGP-126
4	BGP-119	18	BGP-127
5	BGP-123	19	BGP-31
6	BGP-68	20	BGP-19
7	BGP-137	21	BGP-69
8	BGP-63	22	BGP-138
9	BGP-66	23	BGP-17
10	BGP-72	24	UPASI-09
11	HV-39	25	BGP-144
12	CEF-02	26	BGP-73
13	BGP-146	27	BGP-67
14	AV02	28	BGP-28

Germplasm Block G



List of accessions in Germplasm Block G

S. No.	Germplasm code	S. No.	Germplasm code
1	MPAT-05	17	BGP-157
2	MPAT-07	18	TTL-02
3	MBAL-10	19	TTL-01
4	SALOH-02	20	SSTOCK-14
5	MBAL-17	21	BGP-156
6	RAIPUR-04	22	SSTOCK-05
7	BNATH-01	23	SSTOCK-07
8	SALOH-01	24	SSTOCK-01
9	UPASI-09	25	SA-06
10	PATTA-01	26	BGP-158
11	SBARI-02	27	AV-02
12	MPAT-02	28	BGP-146
13	CEF-02	29	BGP-152
14	CEF-03	30	BGP-141
15	CEF-01	31	BGP-151
16	CPF-01	32	BGP-125

DESCRIPTION OF TEA GERMPLASM

Accession No. : IHBT-01

Accession Code : AV-2

Type : Chinary; shrub

Source : Makaibari Tea Estate, Darjeeling

Location : Germplasm Block F

Unique features

Flushing time : Intermediate

Mature leaf type : Small-medium, dark green, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 3.01 cm

Two and a bud traits : Purple colour, dense pubescence

Shoots density : Dense

Floral traits : Clusters of flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 2.4; ECG: 0.7; EGC: 6.8; EGCG: 14.1; C: 0.25; TC: 25.3; Caffeine: 6.0



IHBT-01 (AV-02)



IHBT-01 (AV-02)

Accession No. : IHBT-02

Accession Code : Baijnath-01



IHBT-02 (Baijnath-01)



IHBT-02 (Baijnath-01)

Type : Chinary; semi-arbour

Source : Baijnath Tea Estate, Baijnath

Location : Germplasm Block G

Unique features

Flushing time : Intermediate

Mature leaf type : Small, dark green, serrulate, waxy rugose leaf surface, leaf apex recurved, attenuate leaf base

Internode length : 2.31 cm

Two and a bud traits : Yellow green colour (144-A), sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 7-9 petals

Quality traits (%) : EC: 0.59; ECG: 1.34; EGC: 2.29; EGCG: 8.36; C: 1.36; TC: 13.94; Caffeine: 3.01

Accession No. : IHBT-03
Accession Code : Baijnath-04

Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green (146 A), lanceolate shape, serrulate, smooth leaf surface, leaf apex recurved
Internode length : 2.11 cm
Two and a bud traits : Green (144 A) colour, dense pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, androecium and gynoecium at same height, 6-8 petals
Quality traits (%) : EC: 0.391; ECG: 0.59; EGC: 3.2; EGCG: 12.9; C: 0.28; TC: 17.7; Caffeine: 3.0



IHBT-03 (Baijnath-04)



IHBT-03 (Baijnath-04)

Accession No. : IHBT-04
Accession Code : Banuri Jat

Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block B

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green (146 A), lanceolate shape, serrulate margin, leaf apex acute recurved, rugose leaf surface
Internode length : 2.28 cm
Two and a bud traits : Green (146 B) colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, androecium higher than gynoecium, 7 petals
Quality traits (%) : EC: 0.83; ECG: 2.82; EGC: 3.6; EGCG: 5.58; C: 1.36; TC: 14.19; Caffeine: 1.72



IHBT-04 (Banuri Jat)



IHBT-04 (Banuri Jat)

Accession No. : IHBT-05

Accession Code : BB-668

Type : Chinary; semi-arbour

Source : Bannockbara Tea Estate, Darjeeling

Location : Germplasm Block C

Unique features

Flushing time : Mid season flush

Mature leaf type : large, green (138 B), lanceolate, serrulate margin, smooth leaf surface, acute recurved apex

Internode length : 3.9 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.82; ECG: 2.92; EGC: 1.93; EGCG: 8.64; C: 1.37; TC: 15.69; Caffeine: 2.53



IHBT-05 (BB-668)



IHBT-05 (BB-668)

Accession No. : IHBT-06

Accession Code : BGP-17



IHBT-06 (BGP-17)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush

Mature leaf type : Small, dark green (147 A), serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 1.64 cm

Two and a bud traits : Green colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, Gynoecium higher than androecium

Quality traits (%) : EC: 0.87; ECG: 3.76; EGC: 2.79; EGCG: 9.07; C: 1.39; TC: 17.88; Caffeine: 2.70



IHBT-06 (BGP-17)

Accession No. : IHBT-07

Accession Code : BGP-19

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green (146 A), lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.13 cm
Two and a bud traits : Yellow green (152 A) colour, dense pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.72; ECG: 3.19; EGC: 2.94; EGCG: 9.41; C: 1.43; TC: 17.69; Caffeine: 2.72



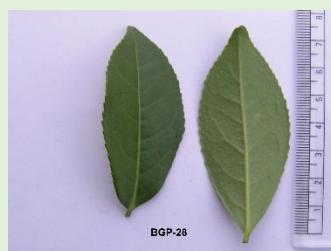
IHBT-07 (BGP-19)



IHBT-07 (BGP-19)

Accession No. : IHBT-08

Accession Code : BGP-28



IHBT-08 (BGP-28)



IHBT-08 (BGP-28)

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.26 cm
Two and a bud traits : Yellow green colour, dense pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.53; ECG: 2.36; EGC: 2.26; EGCG: 7.40; C: 1.46; TC: 14.02; Caffeine: 2.15

Accession No. : IHBT-09

Accession Code : BGP-31

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green, serrulate, smooth leaf surface, blunt tip, down turned (recurved)

Internode length : 1.59 cm

Two and a bud traits : Purple colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 6.8 petals

Quality traits (%) : EC: 0.72; ECG: 1.91; EGC: 2.81; EGCG: 8.95; C: 1.63; TC: 16.02; Caffeine: 2.91



IHBT-09 (BGP-31)



IHBT-09 (BGP-31)

Accession No. : IHBT-10

Accession Code : BGP-63

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block E & F

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green (147 A), oblong shape, serrulate margin, leaf apex acute recurved, waxy smooth leaf surface

Internode length : 2.61 cm

Two and a bud traits : Yellow green colour (152 C), sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary flowers in cluster, Androecium higher than gynoecium, 5-6 petals

Quality traits (%) : EC: 0.81; ECG: 2.79; EGC: 1.87; EGCG: 5.21; C: 1.24; TC: 11.92; Caffeine: 2.01



IHBT-10 (BGP-63)



IHBT-10 (BGP-63)

Accession No. : IHBT-11

Accession Code : BGP-66

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, dark green, lanceolate serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 2.61 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.79; ECG: 2.64; EGC: 2.32; EGCG: 6.86; C: 1.49; TC: 14.11; Caffeine: 2.56



IHBT-11 (BGP-66)



IHBT-11 (BGP-66)

Accession No. : IHBT-12

Accession Code : BGP-67



IHBT-12 (BGP-67)



IHBT-12 (BGP-67)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, dark green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 2.26 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.72; ECG: 4.65; EGC: 2.43; EGCG: 8.10; C: 1.43; TC: 17.33; Caffeine: 2.48

Accession No. : IHBT-13

Accession Code : BGP-68

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, serrated margin, leaf apex recurved, rugose leaf surface
Internode length : 2.04 cm
Two and a bud traits : Purple colour, dense pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.81; ECG: 2.45; EGC: 2.81; EGCG: 7.81; C: 1.43; TC: 15.31; Caffeine: 2.81



IHBT-13 (BGP-68)



IHBT-13 (BGP-68)

Accession No. : IHBT-14

Accession Code : BGP-69



IHBT-14 (BGP-69)



IHBT-14 (BGP-69)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green (146 A), lanceolate, serrulate margin, smooth leaf surface, acute recurved apex
Internode length : 2.51 cm
Two and a bud traits : Purple colour, dense pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.62; ECG: 2.27; EGC: 2.31; EGCG: 8.31; C: 1.36; TC: 14.89; Caffeine: 2.28

Accession No. : IHBT-15

Accession Code : BGP-72

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush

Mature leaf type : Small, dark green, serrulate margin, smooth leaf surface, acute recurved apex

Internode length : 1.96 cm

Two and a bud traits : Yellow green colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.91; ECG: 3.9; EGC: 3.05; EGCG: 9.82; C: 1.46; TC: 19.15; Caffeine: 2.72



IHBT-15 (BGP-72)



IHBT-15 (BGP-72)

Accession No. : IHBT-16

Accession Code : BGP-73

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block E & F

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, dark green, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 1.99 cm

Two and a bud traits : Yellow green colour, intermediate pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 1.03; ECG: 4.3; EGC: 2.8; EGCG: 9.95; C: 1.4; TC: 19.48; Caffeine: 3.05



IHBT-16 (BGP-73)



IHBT-16 (BGP-73)

Accession No. : IHBT-17
Accession Code : BGP-118

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green (147 A), lanceolate shape, serrulate margin, leaf apex acute recurved, waxy smooth leaf surface

Internode length : 2.73 cm
Two and a bud traits : Yellow green colour (152 A), dense pubescence

Shoots density : Intermediate

Floral traits : Axillary flowers in cluster, gynoecium and androecium at same height, 6-8 petals

Quality traits (%) : EC: 0.535; ECG: 1.5; EGC: 2.38; EGCG: 8.634; C: 1.37; TC: 14.419; Caffeine: 2.57



IHBT-17 (BGP-118)



IHBT-17 (BGP-118)

Accession No. : IHBT-18
Accession Code : BGP-119



IHBT-18 (BGP-119)



IHBT-18 (BGP-119)

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, lanceolate, serrulate margin, leaf apex acute straight, smooth leaf surface

Internode length : 2.2 cm
Two and a bud traits : Green (144 A) colour, sparse pubescence

Shoots density : Low

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 1.08; ECG: 4.9; EGC: 3.25; EGCG: 12.3; C: 2.28; TC: 23.81; Caffeine: 3.7

Accession No. : IHBT-19
Accession Code : BGP-121

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, serrulate margins, leaf apex recurved, rugose, smooth leaf surface
Internode length : 1.93 cm
Two and a bud traits : Purple colour, dense pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 1.17; ECG: 3.5; EGC: 3.22; EGCG: 6.8; C: 1.41; TC: 16.1; Caffeine: 2.97



IHBT-19 (BGP-121)



IHBT-19 (BGP-121)

Accession No. : IHBT-20
Accession Code : BGP-122

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green (147 A), lanceolate, serrulate margin, smooth leaf surface, acute recurved apex
Internode length : 2.69 cm
Two and a bud traits : Yellow green (146 A) colour, intermediate pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.82; ECG: 1.74; EGC: 3.15; EGCG: 6.46; C: 1.47; TC: 13.64; Caffeine: 2.79



IHBT-20 (BGP-122)



IHBT-20 (BGP-122)

Accession No. : IHBT-21

Accession Code : BGP-123

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, serrulate margin, lanceolate, leaf apex recurved, smooth leaf surface
Internode length : 1.45 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 6-8 petals
Quality traits (%) : EC: 0.961; ECG: 3.1; EGC: 3.166; EGCG: 10.22; C: 1.41; TC: 18.857; Caffeine: 3.39



IHBT-21 (BGP-123)



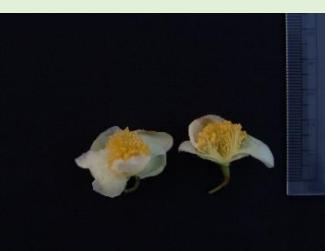
IHBT-21 (BGP-123)

Accession No. : IHBT-22

Accession Code : BGP-125



IHBT-22 (BGP-125)



IHBT-22 (BGP-125)

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, lanceolate shape, serrulate, smooth leaf surface, leaf apex recurved, leaf base attenuate

Internode length : 2.14 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height, 6-8 petals

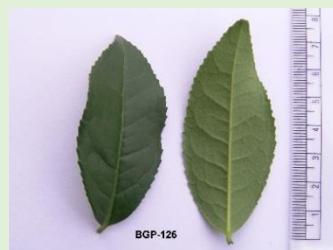
Quality traits (%) : EC: 0.02; ECG: 0.54; EGC: 4.68; EGCG: 12.2; C: 0.25; TC: 17.4; Caffeine: 6.0

Accession No. : IHBT-23
Accession Code : BGP-126

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : large, dark green, serrulate margins, leaf apex recurved, rugose, smooth leaf surface
Internode length : 1.93 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.88; ECG: 3.23; EGC: 3.2; EGCG: 11.2; C: 1.43; TC: 20.14; Caffeine: 3.2



IHBT-23 (BGP-126)



IHBT-23 (BGP-126)

Accession No. : IHBT-24
Accession Code : BGP-127



IHBT-24 (BGP-127)



IHBT-24 (BGP-127)

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F & G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, serrulate, lanceolate, smooth leaf surface, leaf apex recurved
Internode length : 1.4 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 7-9 petals
Quality traits (%) : EC: 0.487; ECG: 1.77; EGC: 2.52; EGCG: 9.25; C: 1.414; TC: 15.441; Caffeine: 2.36

Accession No. : IHBT-25
Accession Code : BGP-133

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : large, green, Lanceolate shaped, serrulate margins; waxy, smooth leaf surface, blunt tip, down turned (recurved)
Internode length : 2.31 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium, 7-9 petals
Quality traits (%) : EC: 0.82; ECG: 3.31; EGC: 2.76; EGCG: 7.65; C: 1.45; TC: 16.02; Caffeine: 2.72



IHBT-25 (BGP-133)



IHBT-025 (BGP-133)

Accession No. : IHBT-26
Accession Code : BGP-137

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, green (147-A), lanceolate shape, serrulate, smooth leaf surface, leaf apex recurved
Internode length : 2.77 cm
Two and a bud traits : Purple colour (152-A), sparse pubescence
Shoots density : Intermediate
Floral traits : Axillary solitary flowers, androecium higher than gynoecium, 6-8 petals
Quality traits (%) : EC: 0.69; ECG: 2.308; EGC: 2.902; EGCG: 8.9; C: 1.38; TC: 16.18; Caffeine: 2.66

IHBT-26 (BGP-137)



IHBT-26 (BGP-137)

Accession No. : IHBT-27
Accession Code : BGP-138

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, dark green (147A), lanceolate, serrulate margin, leaf apex recurved, rugose leaf surface
Internode length : 1.06 cm
Two and a bud traits : Yellow green colour (144A), , dense pubescence
Shoots density : Intermediate
Floral traits : Axillary solitary flowers, gynoecium and androecium at same height, 6-8 petals
Quality traits (%) : EC: 0.631; ECG: 0.59; EGC: 2.67; EGCG: 6.49; C: 1.66; TC: 12.041; Caffeine: 3.47



IHBT-27 (BGP-138)



IHBT-27 (BGP-138)

Accession No. : IHBT-28
Accession Code : BGP-141

Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block E & F

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green (146A), lanceolate shape, serrulate margin, leaf apex recurved, smooth leaf surface
Internode length : 1.85 cm
Two and a bud traits : Yellow green colour (144-A) , dense pubescence
Shoots density : Intermediate
Floral traits : Axillary solitary flowers, gynoecium higher than androecium, 6-8 petals
Quality traits (%) : EC: 0.3; ECG: 0.5; EGC: 3.0; EGCG: 12.0; C: 0.24; TC: 16.0; Caffeine: 3.0



IHBT-28 (BGP-141)



IHBT-28 (BGP-141)

Accession No. : IHBT-29
Accession Code : BGP-144

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, serrulate, smooth leaf surface, acute recurved leaf apex
Internode length : 1.68 cm
Two and a bud traits : Yellow green colour, intermediate pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 1.03; ECG: 4.3; EGC: 2.8; EGCG: 9.95; C: 1.40; TC: 19.48; Caffeine: 3.05



IHBT-29 (BGP-144)



IHBT-29 (BGP-144)

Accession No. : IHBT-30
Accession Code : BGP-146

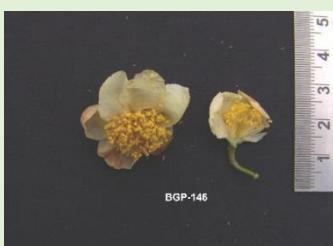
Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block F

Unique features



IHBT-30 (BGP-146)

Flushing time : Mid season flush
Mature leaf type : Medium, green, serrulate margin, leaf apex recurved, smooth leaf surface
Internode length : 2.57 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Terminal flowers, androecium higher than gynoecium
Quality traits (%) : EC: 0.69; ECG: 2.24; EGC: 2.82; EGCG: 10.16; C: 1.38; TC: 17.29; Caffeine: 3.25



IHBT-30 (BGP-146)

Accession No. : IHBT-31
Accession Code : BGP-151

Type : Chinary; shrub
Source : Banuri Farm, CSIR-IHBT, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green (146 A), lanceolate shape, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.05 cm
Two and a bud traits : Green (146 B) colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium, 6-8 petals
Quality traits (%) : EC: 0.03; ECG: 0.64; EGC: 4.0; EGCG: 13.2; C: 0.27; TC: 18.9; Caffeine: 6.0



IHBT-31 (BGP-151)



IHBT-31 (BGP-151)

Accession No. : IHBT-32
Accession Code : BGP-152

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green (147-A), lanceolate shape, serrulate, smooth leaf surface, leaf apex recurved, leaf base attenuate
Internode length : 2.46 cm
Two and a bud traits : Green colour (146-A), sparse pubescence
Shoots density : Mid season flush
Floral traits : Solitary flowers in axil, gynoecium and androecium at same height, 7 petals
Quality traits (%) : EC: 0.912; ECG: 2.398; EGC: 2.96; EGCG: 5.79; C: 1.4027; TC: 12.551; Caffeine: 2.05



IHBT-32 (BGP-152)



IHBT-32 (BGP-152)

Accession No. : IHBT-33

Accession Code : BGP-156

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (146 A), lanceolate shape, serrulate, non-waxy smooth leaf surface, leaf apex recurved

Internode length : 2.61 cm

Two and a bud traits : Green (144 A) colour, dense pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, androecium higher than gynoecium, 7 petals

Quality traits (%) : EC: 0.81; ECG: 2.79; EGC: 1.87; EGCG: 5.21; C: 1.24; TC: 11.92; Caffeine: 2.01



IHBT-33 (BGP-156)



IHBT-33 (BGP-156)

Accession No. : IHBT-34

Accession Code : BGP-157



IHBT-34 (BGP-157)



IHBT-34 (BGP-157)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block G

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green, lanceolate, serrulate margins, leaf apex recurved, waxy rugose leaf surface

Internode length : 2.38 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, Gynoecium higher than androecium, 6-8 petals

Quality traits (%) : EC: 0.59; ECG: 2.78; EGC: 2.21; EGCG: 8.57; C: 1.41; TC: 15.56; Caffeine: 2.75

Accession No. : IHBT-35

Accession Code : BGP-158

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block E & F

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green (146A), lanceolate shape, serrulate margin, leaf apex recurved, waxy rugose leaf surface

Internode length : 1.79 cm

Two and a bud traits : Yellow green colour (144-A) , dense pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, gynoecium higher than androecium, 6 petals

Quality traits (%) : EC: 1.068; ECG: 3.07; EGC: 3.17; EGCG: 8.114; C: 1.56; TC: 16.982; Caffeine: 2.49



IHBT-35 (BGP-158)



IHBT-35 (BGP-158)

Accession No. : IHBT-36

Accession Code : Bhattu-22



IHBT-36 (Bhattu-22)



IHBT-36 (Bhattu-22)

Type : Assamica; single stem

Source : Bhattu Tea Garden, Palampur

Location : Germplasm Block E

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green (146A), lanceolate, serrulate margin, leaf apex recurved, rugose leaf surface

Internode length : 2.23 cm

Two and a bud traits : Yellow green colour (146C) , sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, gynoecium and androecium at same height, 6 petals

Quality traits (%) : EC: 1.104; ECG: 2.07; EGC: 1.65; EGCG: 4.25; C: 1.395; TC: 10.469; Caffeine: 1.53

Accession No. : IHBT-37
Accession Code : BL/9/3/76

Type : Chinary; semi-arbour
Source : Darjeeling, TRA
Location : Germplasm Block D

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, green, lanceolate, serrulate margin, leaf apex acute straight, smooth leaf surface
Internode length : 4.11 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.72; ECG: 4.65; EGC: 2.43; EGCG: 8.10; C: 1.43; TC: 17.33; Caffeine: 2.48



IHBT-37 (BL/9/3/76)



IHBT-37 (BL/9/3/76)

Accession No. : IHBT-38
Accession Code : BS-01

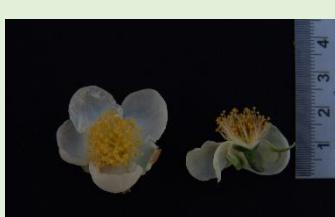
Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block D

Unique features

Flushing time : Mid season flush
Mature leaf type : Small to medium size, elliptic, yellow green, serrulate and wavy margin, apex blunt, recurved tip, yellow green petiole, non-waxy, smooth leaf surface
Internode length : 2.07 cm
Two and a bud traits : Purple colour, dense pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 6-8 petals
Quality traits (%) : EC: 0.53; ECG: 0.7; EGC: 4.6; EGCG: 10.7; C: 0.27; TC: 17.0; Caffeine: 4.2



IHBT-38 (BS-01)



IHBT-38 (BS-01)

Accession No.0 : IHBT-39

Accession Code : BS-02

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green, serrulate, rugose leaf surface, acute recurved leaf apex

Internode length : 1.63 cm

Two and a bud traits : Yellow-green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.37; ECG: 3.54; EGC: 1.17; EGCG: 2.77; C: 0.5; TC: 8.35; Caffeine: 2.4



IHBT-39 (BS-02)



IHBT-39 (BS-02)

Accession No. : IHBT-40

Accession Code : BS-03



IHBT-40 (BS-03)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green, lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 1.28 cm

Two and a bud traits : Yellow green colour, intermediate pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.87; ECG: 3.4; EGC: 1.61; EGCG: 9.45; C: 1.38; TC: 16.71; Caffeine: 2.41



IHBT-40 (BS-03)

Accession No. : IHBT-41

Accession Code : BS-05

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium-large, dark green, lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 5.04 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.59; ECG: 2.01; EGC: 2.71; EGCG: 4.34; C: 1.39; TC: 11.04; Caffeine: 2.31



IHBT-41 (BS-05)



IHBT-41 (BS-05)

Accession No. : IHBT-42

Accession Code : BS-06



IHBT-42 (BS-06)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : large, dark green, biserrate, rugose leaf surface, acute recurved leaf apex

Internode length : 4.43 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.56; ECG: 1.94; EGC: 0.80; EGCG: 2.76; C: 1.42; TC: 7.48; Caffeine: 1.35



IHBT-42 (BS-06)

Accession No. : IHBT-43
Accession Code : BS-07

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block D

Unique features

Flushing time : Early
Mature leaf type : Medium, dark green (146-A), elliptic shape, serrulate, waxy smooth leaf surface, leaf apex obtuse recurved
Internode length : 1.93 cm
Two and a bud traits : Yellow green colour (152 A), sparse pubescence
Shoots density : Intermediate
Floral traits : Axillary flowers in clusters, gynoecium higher than androecium, 6-8 petals
Quality traits (%) : EC: 0.46; ECG: 2.34; EGC: 2.01; EGCG: 3.73; C: 1.36; TC: 9.9; Caffeine: 2.04



IHBT-43 (BS-07)



IHBT-43 (BS-07)

Accession No. : IHBT-44
Accession Code : BS-08



IHBT-44 (BS-08)



IHBT-44 (BS-08)

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block D

Unique features

Flushing time : Early
Mature leaf type : Small, dark green (146 A), lanceolate, serrulate margin, smooth leaf surface, acute recurved leaf apex
Internode length : 0.84 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.9; ECG: 2.67; EGC: 2.43; EGCG: 4.12; C: 1.38; TC: 11.5; Caffeine: 2.94

Accession No. : IHBT-45

Accession Code : BS-09

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block C

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, green (138 B), lanceolate shape, serrulate, smooth leaf surface, leaf apex acute recurved

Internode length : 4.19 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height, 7 petals

Quality traits (%) : EC: 0.75; ECG: 3.41; EGC: 2.81; EGCG: 6.2; C: 1.21; TC: 14.38; Caffeine: 2.69



IHBT-45 (BS-09)



IHBT-45 (BS-09)

Accession No. : IHBT-46

Accession Code : BS-11

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green, serrulate margin, rugose leaf surface, acute recurved leaf apex

Internode length : 1.44 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.48; ECG: 2.86; EGC: 1.4; EGCG: 3.86; C: 1.38; TC: 9.98; Caffeine: 1.88



IHBT-46 (BS-11)



IHBT-46 (BS-11)

Accession No. : IHBT-47

Accession Code : BS-12

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block C

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate shape, serrulate, smooth leaf surface, leaf apex acute recurved

Internode length : 2.12 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height, 5 petals

Quality traits (%) : EC: 0.77; ECG: 3.34; EGC: 2.03; EGCG: 7.67; C: 1.4; TC: 15.21; Caffeine: 2.53



IHBT-47 (BS-12)



IHBT-47 (BS-12)

Accession No. : IHBT-48

Accession Code : BS-13



IHBT-48 (BS-13)



IHBT-48 (BS-13)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green (147 A), lanceolate, biserrate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 4.66 cm

Two and a bud traits : Yellow green (148 A) colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.48; ECG: 2.27; EGC: 1.29; EGCG: 2.57; C: 1.42; TC: 8.03; Caffeine: 1.91

Accession No. : IHBT-49

Accession Code : BS-14

Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block D

Unique features

Flushing time : Mid season flush
Mature leaf type : Small to medium, oblong, yellow green, serrulate margin, apex blunt and recurved, smooth leaf surface
Internode length : 1.43 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.21; ECG: 0.44; EGC: 1.3; EGCG: 3.8; C: 0.25; TC: 6.3; Caffeine: 3.5



IHBT-49 (BS-14)



IHBT-49 (BS-14)

Accession No. : IHBT-50

Accession Code : BS-16



IHBT-50 (BS-16)



IHBT-50 (BS-16)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early
Mature leaf type : Medium, dark green (146-A), ovate shape, serrulate, rugose leaf surface, leaf apex recurved, leaf base attenuate
Internode length : 1.544 cm
Two and a bud traits : Green colour (144-A), sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, gynoecium and androecium at same height, 7 petals
Quality traits (%) : EC: 0.79; ECG: 2.97; EGC: 3.12; EGCG: 7.9; C: 1.32; TC: 16.1; Caffeine: 2.98

Accession No. : IHBT-51

Accession Code : BS-18

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, yellow green (147 A), ovate shape, wavy margin, leaf apex obtuse recurved, non-waxy smooth leaf surface

Internode length : 1.72 cm

Two and a bud traits : Purple colour (152 A), dense pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, androecium and gynoecium at same height, 6 petals

Quality traits (%) : EC: 0.57; ECG: 2.48; EGC: 2.06; EGCG: 5.29; C: 1.42; TC: 11.82; Caffeine: 2.09



IHBT-51 (BS-18)



IHBT-51 (BS-18)

Accession No. : IHBT-52

Accession Code : BS-19



IHBT-52 (BS-19)



IHBT-52 (BS-19)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate, serrulate, smooth leaf surface, attenuate recurved leaf apex

Internode length : 3.44 cm

Two and a bud traits : Purple colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.4; ECG: 3.91; EGC: 1.08; EGCG: 2.41; C: 2.08; TC: 9.88; Caffeine: 1.78

Accession No. : IHBT-53

Accession Code : BS-21

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D



IHBT-53 (BS-21)

Unique features

Flushing time : Early

Mature leaf type : Small-medium, green, lanceolate, serrulate, smooth leaf surface, acute recurved apex

Internode length : 1.07 cm

Two and a bud traits : Green colour, intermediate pubescence

Shoots density : Intermediate

Floral traits : Solitary and cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.9; ECG: 2.84; EGC: 2.41; EGCG: 6.87; C: 1.43; TC: 14.45; Caffeine: 2.45



IHBT-53 (BS-21)

Accession No. : IHBT-54

Accession Code : BS-22



IHBT-54 (BS-22)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Long Term Advance Trial

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 3.23 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.73; ECG: 2.25; EGC: 1.97; EGCG: 4.38; C: 1.39; TC: 10.72; Caffeine: 1.95



IHBT-54 (BS-22)

Accession No. : IHBT-55

Accession Code : BS-23

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D



IHBT-55 (BS-23)

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate, serrulate margin, rugose leaf surface, acute recurved leaf apex

Internode length : 1.63 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.66; ECG: 2.89; EGC: 3.10; EGCG: 7.21; C: 1.49; TC: 15.36; Caffeine: 2.72



IHBT-55 (BS-23)

Accession No. : IHBT-56

Accession Code : BS-24



IHBT-56 (BS-24)

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 2.6 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 6 petals

Quality traits (%) : EC: 0.82; ECG: 3.24; EGC: 2.83; EGCG: 6.9; C: 1.76; TC: 15.55; Caffeine: 2.49



IHBT-56 (BS-24)

Accession No. : IHBT-57

Accession Code : BS-26

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block B



Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green, oblong, serrulate margin, rugose leaf surface, acute recurved apex

Internode length : 3.59 cm

Two and a bud traits : Purple colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.03; ECG: 0.66; EGC: 1.58; EGCG: 11.3; C: 0.25; TC: 13.9; Caffeine: 5.2



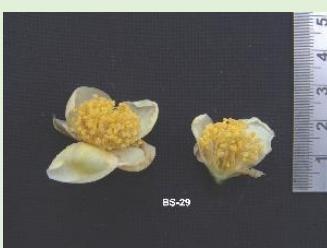
IHBT-57 (BS-26)

Accession No. : IHBT-58

Accession Code : BS-29



IHBT-58 (BS-29)



IHBT-58 (BS-29)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 2.74 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.67; ECG: 3.07; EGC: 1.69; EGCG: 5.93; C: 1.39; TC: 11.04; Caffeine: 2.12

Accession No. : IHBT-59

Accession Code : BS-31

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, green, serrulate margin, smooth leaf surface, acute recurved apex

Internode length : 3.32 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.72; ECG: 2.1; EGC: 2.28; EGCG: 3.87; C: 2.79; TC: 11.76; Caffeine: 3.89



IHBT-59 (BS-31)



IHBT-59 (BS-31)

Accession No. : IHBT-60

Accession Code : BS-34

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green (146 A), lancceolate, serrulate margin, smooth leaf surface, attenuate recurved apex

Internode length : 2.27 cm

Two and a bud traits : Yellow green (152 B) colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.96; ECG: 4.15; EGC: 2.61; EGCG: 9.33; C: 1.5; TC: 18.55; Caffeine: 2.7



IHBT-60 (BS-34)



IHBT-60 (BS-34)

Accession No. : IHBT-61

Accession Code : BS-37

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green (137-A), lanceolate shape, serrulate, waxy smooth leaf surface, leaf apex lanceolate recurved

Internode length : 1.95 cm

Two and a bud traits : Yellow green colour (144 A), sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, androecium and gynoecium at same height, 6 petals

Quality traits (%) : EC: 0.69; ECG: 2.78; EGC: 1.83; EGCG: 2.87; C: 1.58; TC: 9.75; Caffeine: 4.043



IHBT-61 (BS-37)



IHBT-61 (BS-37)

Accession No. : IHBT-62

Accession Code : BS-38



IHBT-62 (BS-38)



IHBT-62 (BS-38)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, yellow-green, lanceolate, serrulate margin, smooth leaf surface, acute recurved apex

Internode length : 1.42 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: ND; ECG: 0.53; EGC: 0.62; EGCG: 10.7; C: 0.25; TC: 12.57; Caffeine: 4.7

Accession No. : IHBT-63

Accession Code : BS-40

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : large, dark green, lanceolate, serrulate margin, smooth leaf surface, acute recurved leaf apex

Internode length : 3.62 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.29; ECG: 2.10; EGC: 1.95; EGCG: 3.85; C: 1.35; TC: 9.55; Caffeine: 2.24



IHBT-63 (BS-40)



IHBT-63 (BS-40)

Accession No. : IHBT-64

Accession Code : BS-42



IHBT-64 (BS-42)



IHBT-64 (BS-42)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green, oblong, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 0.94 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.78; ECG: 2.66; EGC: 1.35; EGCG: 3.24; C: 1.48; TC: 9.51; Caffeine: 1.73

Accession No. : IHBT-65

Accession Code : BS-43

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, green, lanceolate, serrulate margin, leaf apex recurved, smooth leaf surface

Internode length : 1.99 cm

Two and a bud traits : Yellow green colour (144-A), sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 7-8 petals

Quality traits (%) : EC: 0.593; ECG: 2.47; EGC: 1.54; EGCG: 5.021; C: 1.4; TC: 11.024; Caffeine: 2.17



IHBT-65 (BS-43)



IHBT-65 (BS-43)

Accession No. : IHBT-66

Accession Code : BS-44

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green (146 A), lanceolate, serrulate margin, rugose leaf surface, acute recurved apex

Internode length : 1.36 cm

Two and a bud traits : Yellow green (144 A) colour, sparse pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 1.68; ECG: 2.44; EGC: 1.58; EGCG: 4.30; C: 1.39; TC: 11.39; Caffeine: 2.18



IHBT-66 (BS-44)



IHBT-66 (BS-44)

Accession No. : IHBT-67

Accession Code : BS-46

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block B



Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, oblong, green, serrulate and denticulate margin, acute leaf apex down turned, yellow green petiole, waxy smooth leaf surface

Internode length : 4.44 cm

Two and a bud traits : green colour, dense pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium, 6-8 petals

Quality traits (%) : EC: 0.36; ECG: 0.56; EGC: 4.6; EGCG: 10.1; C: 0.25; TC: 16.05; Caffeine: 5.6

IHBT-67 (BS-46)



IHBT-67 (BS-46)

Accession No. : IHBT-68

Accession Code : BS-47

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, green (138 B), lanceolate shape, serrulate, smooth leaf surface, leaf apex acute recurved

Internode length : 2.96 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Low

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 8 petals

Quality traits (%) : EC: 0.62; ECG: 2.67; EGC: 1.73; EGCG: 4.03; C: 1.41; TC: 10.46; Caffeine: 2.18

IHBT-68 (BS-47)



IHBT-68 (BS-47)

Accession No. : IHBT-69

Accession Code : BS-48

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green (146 A), lanceolate, serrulate margin, leaf apex blunt recurved, rugose leaf surface

Internode length : 1.09 cm

Two and a bud traits : Green (144 A) colour, sparse pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.69; ECG: 2.58; EGC: 1.76; EGCG: 3.54; C: 1.54; TC: 10.11; Caffeine: 2.03



IHBT-69 (BS-48)



IHBT-69 (BS-48)

Accession No. : IHBT-70

Accession Code : BS-49



IHBT-70 (BS-49)



IHBT-70 (BS-49)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate shape, serrulate, smooth leaf surface, leaf apex acute recurved

Internode length : 2.22 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height, 7 petals

Quality traits (%) : EC: 0.77; ECG: 2.49; EGC: 2.74; EGCG: 6.33; C: 1.41; TC: 13.74; Caffeine: 2.48

Accession No. : IHBT-71

Accession Code : BS-50

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 3.7 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.84; ECG: 3.09; EGC: 2.43; EGCG: 7.96; C: 1.49; TC: 15.81; Caffeine: 2.57



IHBT-71 (BS-50)



IHBT-71 (BS-50)

Accession No. : IHBT-72

Accession Code : BS-52



IHBT-72 (BS-52)



IHBT-72 (BS-52)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green (147 A), lanceolate, serrulate margin, leaf apex blunt recurved, rugose leaf surface

Internode length : 1.86 cm

Two and a bud traits : Green (144 A) colour, dense pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.57; ECG: 2.47; EGC: 2.05; EGCG: 4.39; C: 1.35; TC: 10.83; Caffeine: 2.06

Accession No. : IHBT-73

Accession Code : BS-53

Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block C

Unique features

Flushing time : Early
Mature leaf type : Medium, green, lanceolate, wavy and serrulate margin, leaf apex blunt recurved, smooth leaf surface
Internode length : 1.6 cm
Two and a bud traits : Purple colour, dense pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: ND; ECG: 0.63; EGC: 1.6; EGCG: 9.45; C: 0.38; TC: 12.44; Caffeine: 6.1



IHBT-73 (BS-53)



IHBT-73 (BS-53)

Accession No. : IHBT-74

Accession Code : BS-54



IHBT-74 (BS-54)



IHBT-74 (BS-54)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block A & B

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, green, oblong, serrated margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.02 cm
Two and a bud traits : Green colour, dense pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.7; ECG: 0.66; EGC: 4.68; EGCG: 10.7; C: 0.25; TC: 17.3; Caffeine: 6.0

Accession No. : IHBT-75

Accession Code : BS-55

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 2.37 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 7petals

Quality traits (%) : EC: 0.95; ECG: 3.04; EGC: 2.74; EGCG: 6.6; C: 1.36; TC: 14.69; Caffeine: 2.58



IHBT-75 (BS-55)



IHBT-75 (BS-55)

Accession No. : IHBT-76

Accession Code : BS-56



IHBT-76 (BS-56)



IHBT-76 (BS-56)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green, lanceolate, serrulate margin, smooth leaf surface, acute recurved leaf apex

Internode length : 1.63 cm

Two and a bud traits : Yellow green colour, dense pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.98; ECG: 3.26; EGC: 3.43; EGCG: 8.06; C: 1.38; TC: 17.11; Caffeine: 3.10

Accession No. : IHBT-77

Accession Code : BS-58

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green (147-A), oblong shape, biserrate, waxy smooth leaf surface, leaf apex acute recurved

Internode length : 2.06 cm

Two and a bud traits : Purple colour (152 A), sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, androecium and gynoecium at same height, 8 petals

Quality traits (%) : EC: 0.74; ECG: 3.12; EGC: 2.87; EGCG: 7.12; C: 1.47; TC: 15.32; Caffeine: 2.71



IHBT-77 (BS-58)



IHBT-77 (BS-58)

Accession No. : IHBT-78

Accession Code : BS-60



IHBT-78 (BS-60)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium-large, dark green, lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 3.65 cm

Two and a bud traits : Purple colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.45; ECG: 3.00; EGC: 1.73; EGCG: 7.57; C: 1.39; TC: 14.14; Caffeine: 2.88



IHBT-78 (BS-60)

Accession No. : IHBT-79

Accession Code : BS-62

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green (146A), lanceolate shape, serrulate margin, leaf apex attenuate & recurved, waxy rugose leaf surface

Internode length : 1.115 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, gynoecium and androecium same height, 7 petals

Quality traits (%) : EC: 0.54; ECG: 2.71; EGC: 2.13; EGCG: 5.7; C: 1.94; TC: 13.02; Caffeine: 2.44



IHBT-79 (BS-62)



IHBT-79 (BS-62)

Accession No. : IHBT-80

Accession Code : BS-64

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block C

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, green (138 B), lanceolate shape, serrulate margin, leaf apex acute recurved, non-waxy smooth leaf surface

Internode length : 3.82 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Low

Floral traits : Axillary flowers in cluster, gynoecium and androecium at same height, 6-7 petals

Quality traits (%) : EC: 0.91; ECG: 3.42; EGC: 2.01; EGCG: 7.41; C: 1.2; TC: 14.95; Caffeine: 2.41



IHBT-80 (BS-64)



IHBT-80 (BS-64)

Accession No. : IHBT-81

Accession Code : BS-65

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block B

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green, lanceolate, serrulate margin, leaf apex acute and recurved, smooth leaf surface

Internode length : 3.18 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.01; ECG: 0.6; EGC: 1.73; EGCG: 10.74; C: 0.27; TC: 13.5; Caffeine: 4.36



IHBT-81 (BS-65)



IHBT-81 (BS-65)

Accession No. : IHBT-82

Accession Code : BS-66



IHBT-82 (BS-66)



IHBT-82 (BS-66)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate, serrulate, smooth leaf surface, acute recurved leaf apex

Internode length : 3.62 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.42; ECG: 2.13; EGC: 1.06; EGCG: 2.79; C: 1.39; TC: 7.8; Caffeine: 1.67

Accession No. : IHBT-83

Accession Code : BS-67

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green, lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 2.14 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.47; ECG: 2.75; EGC: 1.00; EGCG: 5.161; C: 1.41; TC: 10.79; Caffeine: 2.3



IHBT-83 (BS-67)



IHBT-83 (BS-67)

Accession No. : IHBT-84

Accession Code : BS-68

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block B

Unique features

Flushing time : Mid season flush

Mature leaf type : Small, green, biserrate margin, smooth leaf surface, acute recurved apex

Internode length : 2.79 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 2.1; ECG: 0.7; EGC: 8; EGCG: 11.3; C: 0.26; TC: 22.4; Caffeine: 4.9



IHBT-84 (BS-68)



IHBT-84 (BS-68)

Accession No. : IHBT-85

Accession Code : BS-69

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D



IHBT-85 (BS-69)

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (137 B), ovate, serrulate margin, rugose leaf surface, acute recurved apex

Internode length : 2.68 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.74; ECG: 4.87; EGC: 2.8; EGCG: 2.71; C: 1.38; TC: 12.5; Caffeine: 1.72



IHBT-85 (BS-69)

Accession No. : IHBT-86

Accession Code : BS-70



IHBT-86 (BS-70)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green (137 A), lanceolate, serrulate margin, smooth leaf surface, acute recurved apex

Internode length : 1.39 cm

Two and a bud traits : Yellow green (152 A) colour, sparse pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.30; ECG: 2.56; EGC: 2.44; EGCG: 5.72; C: 1.39; TC: 12.41; Caffeine: 1.73



IHBT-86 (BS-70)

Accession No. : IHBT-87

Accession Code : BS-71

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium-large, dark green, lanceolate, serrulate margin, rugose leaf surface, acute recurved apex

Internode length : 3.37 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil

Quality traits (%) : EC: 0.51; ECG: 2.19; EGC: 1.74; EGCG: 7.42; C: 1.58; TC: 13.44; Caffeine: 3.14



IHBT-87 (BS-71)



IHBT-87 (BS-71)

Accession No. : IHBT-88

Accession Code : BS-74



IHBT-88 (BS-74)



IHBT-88 (BS-74)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, dark green (147 A), lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 2.55 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Terminal solitary flowers, gynoecium and androecium at same height

Quality traits (%) : EC: 0.55; ECG: 2.23; EGC: 1.4; EGCG: 3.82; C: 1.35; TC: 9.35; Caffeine: 2.25

Accession No. : IHBT-89

Accession Code : BS-75

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, yellow green (147A), serrulate margin, leaf apex attenuate & recurved, waxy rugose leaf surface

Internode length : 1.99 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, androecium and gynoecium at same height, 9 petals

Quality traits (%) : EC: 0.91; ECG: 2.19; EGC: 2.41; EGCG: 7.4; C: 1.7; TC: 14.61; Caffeine: 4.1



IHBT-89 (BS-75)



IHBT-89 (BS-75)

Accession No. : IHBT-90

Accession Code : BS-76



IHBT-90 (BS-76)



IHBT-90 (BS-76)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, yellow green, oblong-ovate, wavy serrulate margin, rugose leaf surface, acute recurved apex

Internode length : 2.5 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.7; ECG: 3.09; EGC: 2.84; EGCG: 3.97; C: 1.42; TC: 12.02; Caffeine: 2.93

Accession No. : IHBT-91

Accession Code : BS-77

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate shape, serrulate margin, leaf apex attenuate & recurved, waxy smooth leaf surface

Internode length : 3.6 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, gynoecium higher than androecium, 7-8 petals

Quality traits (%) : EC: 0.74; ECG: 1.41; EGC: 1.72; EGCG: 6.9; C: 1.82; TC: 12.59; Caffeine: 2.71



IHBT-91 (BS-77)



IHBT-91 (BS-77)

Accession No. : IHBT-92

Accession Code : BS-79

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block E

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green (137A), lanceolate, serrulate margin, leaf apex recurved, rugose leaf surface

Internode length : 4.48 cm

Two and a bud traits : Yellowish green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height, 6-8 petals

Quality traits (%) : EC: 0.47; ECG: 1.94; EGC: 1.4; EGCG: 1.49; C: 1.46; TC: 6.76; Caffeine: 1.34

IHBT-92 (BS-79)



IHBT-92 (BS-79)

Accession No. : IHBT-93

Accession Code : BS-80

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, yellow green (137 B), lanceolate shape, serrulate margin, leaf apex acute recurved, waxy smooth leaf surface

Internode length : 1.41 cm

Two and a bud traits : Yellow green colour (146 B), spare pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, gynoecium and androecium at same height, 7 petals

Quality traits (%) : EC: 0.529; ECG: 2.03; EGC: 1.45; EGCG: 2.81; C: 1.35; TC: 8.169; Caffeine: 2.19



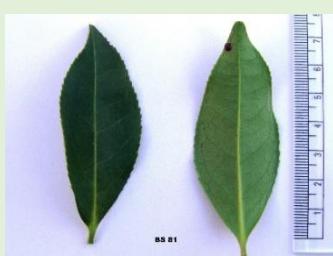
IHBT-93 (BS-80)



IHBT-93 (BS-80)

Accession No. : IHBT-94

Accession Code : BS-81



IHBT-94 (BS-81)



IHBT-94 (BS-81)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green (137-A), elliptic shape, serrulate, waxy rugose leaf surface, leaf apex obtuse recurved

Internode length : 1.99 cm

Two and a bud traits : Yellow green colour (144 A), sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, androecium and gynoecium at same height, 7 petals

Quality traits (%) : EC: 0.469; ECG: 2.26; EGC: 1.42; EGCG: 3.56; C: 1.36; TC: 9.069; Caffeine: 2.07

Accession No. : IHBT-95

Accession Code : BS-85

Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block D

Unique features

Flushing time : Early
Mature leaf type : Small, green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 1.98 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.50; ECG: 2.03; EGC: 1.95; EGCG: 2.82; C: 1.36; TC: 6.3; Caffeine: 2.02



IHBT-95 (BS-85)



IHBT-95 (BS-85)

Accession No. : IHBT-96

Accession Code : BS-86



IHBT-96 (BS-86)



IHBT-96 (BS-86)

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block D

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, green (138-B), lanceolate shape, serrulate, smooth leaf surface, leaf apex recurved
Internode length : 4.01 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, androecium higher than gynoecium, 6-7 petals
Quality traits (%) : EC: 0.82; ECG: 2.12; EGC: 2.57; EGCG: 8.7; C: 1.71; TC: 15.92; Caffeine: 2.29

Accession No. : IHBT-97

Accession Code : BS-89

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, green (138 B), lanceolate, serrulate margin, smooth leaf surface, acute straight apex

Internode length : 3.17 cm

Two and a bud traits : Green (144 A) colour, dense pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium and gynoecium at same height

Quality traits (%) : EC: 0.41; ECG: 2.19; EGC: 2.21; EGCG: 3.81; C: 1.25; TC: 9.87; Caffeine: 2.29



IHBT-97 (BS-89)



IHBT-97 (BS-89)

Accession No. : IHBT-98

Accession Code : BS-90



IHBT-98 (BS-90)



IHBT-98 (BS-90)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 1.58 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.53; ECG: 2.09; EGC: 1.61; EGCG: 2.58; C: 1.4; TC: 8.21; Caffeine: 2.26

Accession No. : IHBT-99

Accession Code : BS-91

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D



IHBT-99 (BS-91)

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green (146 A), lanceolate, serrulate margin, smooth leaf surface, acute recurved apex

Internode length : 1.17 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Low

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.93; ECG: 2.39; EGC: 2.2; EGCG: 2.78; C: 1.35; TC: 9.65; Caffeine: 2.21



IHBT-99 (BS-91)

Accession No. : IHBT-100

Accession Code : BS-92



IHBT-100 (BS-92)



IHBT-100 (BS-92)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green (147-A), lanceolate shape, biserrate, waxy rugose leaf surface, leaf apex recurved

Internode length : 3.66 cm

Two and a bud traits : Dark green colour (146 A), sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary flowers in clusters, androecium and gynoecium at same height, 5-7 petals

Quality traits (%) : EC: 0.785; ECG: 2.82; EGC: 1.62; EGCG: 3.57; C: 1.57; TC: 10.365; Caffeine: 2.16

Accession No. : IHBT-101

Accession Code : BS-93

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate, serrulate, rugose leaf surface, acute recurved leaf apex

Internode length : 2.96 cm

Two and a bud traits : Green colour, dense pubescence

Shoots density : Low

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.79; ECG: 3.29; EGC: 2.7; EGCG: 9.12; C: 1.43; TC: 17.33; Caffeine: 2.71



IHBT-101 (BS-93)



IHBT-101 (BS-93)

Accession No. : IHBT-102

Accession Code : BS-95

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (146 A), lanceolate shape, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 2.28 cm

Two and a bud traits : Green (146 B) colour, sparse pubescence

Shoots density : Dense

Floral traits : Solitary flowers in axil, androecium higher than gynoecium, 7 petals

Quality traits (%) : EC: 0.82; ECG: 2.67; EGC: 1.91; EGCG: 4.83; C: 1.71; TC: 11.94; Caffeine: 1.18



IHBT-102 (BS-95)



IHBT-102 (BS-95)

Accession No. : IHBT-103

Accession Code : BS-96

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block D

Unique features

Flushing time : Early
Mature leaf type : Medium, yellow green (147 A), oblong shape, wavy margin, leaf apex acute recurved, waxy smooth leaf surface
Internode length : 3.44 cm
Two and a bud traits : Yellow green colour (144 A), sparse pubescence
Shoots density : Intermediate
Floral traits : Axillary solitary flowers, gynoecium higher than androecium, 8 petals
Quality traits (%) : EC: 0.71; ECG: 3.1; EGC: 2.74; EGCG: 9.21; C: 1.46; TC: 17.22; Caffeine: 2.52



IHBT-103 (BS-96)



IHBT-103 (BS-96)

Accession No. : IHBT-104

Accession Code : BS-98

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Long Term Advance Trial

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, lanceolate shape, serrulate, non-waxy smooth leaf surface, leaf apex recurved
Internode length : 1.63 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Low
Floral traits : Axillary flowers in clusters, gynoecium higher than androecium, 7 petals
Quality traits (%) : EC: 1.24; ECG: 1.08; EGC: 3.24; EGCG: 9.32; C: 1.38; TC: 16.26; Caffeine: 3.15

IHBT-104 (BS-98)



IHBT-104 (BS-98)

Accession No. : IHBT-105

Accession Code : BS-99

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, dark green (147 A), lanceolate, biserrate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 2.75 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary terminal flowers, gynoecium and androecium at same height

Quality traits (%) : EC: 0.62; ECG: 4.13; EGC: 1.07; EGCG: 11.08; C: 2.04; TC: 18.94; Caffeine: 3.66



IHBT-105 (BS-99)



IHBT-105 (BS-99)

Accession No. : IHBT-106

Accession Code : BS-102



IHBT-106 (BS-102)



IHBT-106 (BS-102)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green (146 A), lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 2.98 cm

Two and a bud traits : Yellow green (152 A) colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.79; ECG: 2.69; EGC: 1.91; EGCG: 8.42; C: 1.32; TC: 15.13; Caffeine: 2.41

Accession No. : IHBT-107

Accession Code : BS-103

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : large, green (137-A), lanceolate, serrulate, rugose leaf surface, leaf apex recurved

Internode length : 0.89 cm

Two and a bud traits : Yellow green colour (144-A), sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, androecium higher than gynoecium, 6-7 petals

Quality traits (%) : EC: 0.93; ECG: 4.11; EGC: 2.43; EGCG: 7.65; C: 1.38; TC: 16.5; Caffeine: 3.339



IHBT-107 (BS-103)



IHBT-107 (BS-103)

Accession No. : IHBT-108

Accession Code : BS-104

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green (147-A), lanceolate shape, serrulate, waxy rugose leaf surface, leaf apex recurved

Internode length : 4.635 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, androecium higher than gynoecium, 7 petals

Quality traits (%) : EC: 0.61; ECG: 2.45; EGC: 2.19; EGCG: 4.21; C: 1.39; TC: 10.85; Caffeine: 2.41



IHBT-108 (BS-104)



IHBT-108 (BS-104)

Accession No. : IHBT-109

Accession Code : BS-105

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate, serrulate, smooth leaf surface, attenuate recurved apex

Internode length : 2.78 cm

Two and a bud traits : Green colour, dense pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.69; ECG: 2.26; EGC: 0.99; EGCG: 1.49; C: ND; TC: 5.43; Caffeine: 1.81



IHBT-109 (BS-105)



IHBT-109 (BS-105)

Accession No. : IHBT-110

Accession Code : BS-106

Type : Chinary; shrub

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : large, green, serrulate margin, leaf apex down turned (recurved), waxy, rugose leaf surface

Internode length : 1.54 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.85; ECG: 2.36; EGC: 2.64; EGCG: 3.42; C: 1.38; TC: 10.65; Caffeine: 2.33



IHBT-110 (BS-106)



IHBT-110 (BS-106)

Accession No. : IHBT-111

Accession Code : BS-107

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green (138 B), lanceolate shape, serrulate margin, leaf apex attenuate & recurved, waxy smooth leaf surface

Internode length : 3.41 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Axillary solitary flowers, androecium higher than gynoecium, 6-9 petals

Quality traits (%) : EC: 0.49; ECG: 3.09; EGC: 2.47; EGCG: 8.42; C: 1.71; TC: 16.18; Caffeine: 2.82



IHBT-111 (BS-107)



IHBT-111 (BS-107)

Accession No. : IHBT-112

Accession Code : BS-108

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small-medium, green, lanceolate, serrulate margin, leaf apex recurved, smooth leaf surface

Internode length : 2.25 cm

Two and a bud traits : Purple colour, dense pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.55; ECG: 1.98; EGC: 0.79; EGCG: 1.26; C: ND; TC: 15.45; Caffeine: 2.51



IHBT-112 (BS-108)



IHBT-112 (BS-108)

Accession No. : IHBT-113

Accession Code : BS-109

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Small, green, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 4.41 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.91; ECG: 2.18; EGC: 2.4; EGCG: 7.79; C: 1.77; TC: 15.05; Caffeine: 2.34



IHBT-113 (BS-109)



IHBT-113 (BS-109)

Accession No. : IHBT-114

Accession Code : BS-110



IHBT-114 (BS-110)



IHBT-114 (BS-110)

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block D

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate, biserrate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 3.51 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Solitary flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.76; ECG: 3.51; EGC: 1.69; EGCG: 10.12; C: 1.45; TC: 17.53; Caffeine: 3.03

Accession No. : IHBT-115

Accession Code : CR-6017

Type : Chinary; shrub

Source : Tea Research Institute (TRI), UPASI, Valparai,
Tamil Nadu

Location : Germplasm Block B

Unique features

Flushing time : Mid season flush

Mature leaf type : Small, green, serrulate margin, smooth
leaf surface, blunt recurved apex

Internode length : 2.71 cm

**Two and a bud
traits** : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium
higher than gynoecium

Quality traits (%) : EC: 0.34; ECG: 0.9; EGC: 4.2; EGCG:
15.95; C: 0.38; TC: 22.07; Caffeine: 6.2



IHBT-115 (CR-6017)



IHBT-115 (CR-6017)

Accession No. : IHBT-116

Accession Code : CEF-01



IHBT-116 (CEF-01)



IHBT-116 (CEF-01)

Type : Chinary; semi-arbour

Source : Chadi Tea Estate, Dharamshala

Location : Germplasm Block G

Unique features

Flushing time : Early

Mature leaf type : Medium, dark green, lanceolate,
serrulate margin, leaf apex recurved,
waxy smooth leaf surface

Internode length : 1.80 cm

**Two and a bud
traits** : Yellow green colour (144-A), dense
pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium
higher than androecium, 5-7 petals

Quality traits (%) : EC: 0.755; ECG: 3.23; EGC: 2.623;
EGCG: 9.33; C: 1.41; TC: 17.348;
Caffeine: 2.767

Accession No. : IHBT-117

Accession Code : CEF-02

Type : Chinary; semi-arbour

Source : Tea Experimental Farm, Banuri, CSIR-IHBT

Location : Germplasm Block F

Unique features

Flushing time : Early

Mature leaf type : Large, dark green, wavy and serrulate, smooth leaf surface, acute recurved apex

Internode length : 2.27 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.62; ECG: 2.58; EGC: 1.56; EGCG: 4.94; C: 1.4; TC: 11.10; Caffeine: 2.20



IHBT-117 (CEF-02)



IHBT-117 (CEF-02)

Accession No. : IHBT-118

Accession Code : CEF-03



IHBT-118 (CEF-03)



IHBT-118 (CEF-03)

Type : Chinary; semi-arbour

Source : Chadi Tea Estate, Dharamshala

Location : Germplasm Block G

Unique features

Flushing time : Early

Mature leaf type : Small, dark green, serrulate margin, smooth leaf surface, acute recurved leaf apex

Internode length : 1.64 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 1.09; ECG: 2.77; EGC: 3.33; EGCG: 9.161; C: 1.43; TC: 17.78; Caffeine: 2.89

Accession No. : IHBT-119

Accession Code : CPF-01

Type : Chinary; shrub
Source : Chadi Tea Garden, Dharamshala
Location : Germplasm Block G



Unique features

Flushing time : Prolonged mid season flush
Mature leaf type : Medium, dark green, serrulate, smooth leaf surface, acute recurved leaf apex
Internode length : 1.95 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.79; ECG: 2.53; EGC: 3.55; EGCG: 8.89; C: 1.42; TC: 17.18; Caffeine: 2.53



IHBT-119 (CPF-01)

Accession No. : IHBT-120

Accession Code : CSIN-303536

Type : Chinary; shrub
Source : NIVOT, Japan
Location : Germplasm Block D



IHBT-120 (CSIN-303536)

Unique features

Flushing time : Mid season flush
Mature leaf type : Small-medium, green, lanceolate, serrulate margin, rugose leaf surface, blunt recurved apex
Internode length : 3.14 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.2; ECG: 0.5; EGC: 2.3; EGCG: 7.4; C: 0.25; TC: 10.7; Caffeine: 4.0



IHBT-120 (CSIN-303536)

Accession No. : IHBT-121

Accession Code : HV-39

Type : Chinary; semi-arbour

Source : Happy Valley Tea Estate, Darjeeeling

Location : Germplasm Block F

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, dark green, serrulate margin, leaf apex acute recurved, rugose leaf surface

Internode length : 1.88 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.79; ECG: 2.84; EGC: 1.91; EGCG: 5.84; C: 1.56; TC: 12.94; Caffeine: 1.48



IHBT-121 (HV-39)



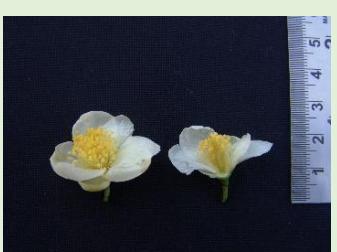
IHBT-121 (HV-39)

Accession No. : IHBT-122

Accession Code : Kangra Asha



IHBT-122 (Kangra Asha)



IHBT-122 (Kangra Asha)

Type : Chinary; shrub

Source : CSK HPKV, Palampur

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, dark green, ovate, biserrate, smooth leaf surface, blunt tip, down turned

Internode length : 2.92 cm

Two and a bud traits : Purple colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers at cluster of flowers in axilend of branches, gynoecium is higher than androecium

Quality traits (%) : EC: 0.39; ECG: 0.59; EGC: 3.2; EGCG: 12.9; C: 0.28; TC: 17.36; Caffeine: 3.0

Accession No. : IHBT-123
Accession Code : Kangra Jat

Type : Chinary; shrub
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block A

Unique features

Flushing time : Late
Mature leaf type : Small to medium, dark green, lanceolate, serrated margin, leaf apex recurved, smooth leaf surface
Internode length : 1.88 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Axillary flowers in clusters, gynoecium higher than androecium
Quality traits (%) : EC: 0.04; ECG: 0.64; EGC: 4.65; EGCG: 12.9; C: 0.27; TC: 18.7; Caffeine: 6.4



IHBT-123 (Kangra Jat)



IHBT-123 (Kangra Jat)

Accession No. : IHBT-124
Accession Code : Khalag-02

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.68 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.64; ECG: 1.78; EGC: 1.72; EGCG: 2.24; C: 1.39; TC: 7.77; Caffeine: 1.08



IHBT-124 (Khalag-02)



IHBT-124 (Khalag-02)

Accession No. : IHBT-125
Accession Code : Khalag-04

Type : Chinary; semi-arbour
Source : Dharamshala Tea Co-operative, Dharamshala
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium-large, green, lanceolate, serrulate margin, smooth leaf surface, attenuate leaf apex
Internode length : 2.69 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.83; ECG: 2.01; EGC: 2.51; EGCG: 2.74; C: 1.37; TC: 14.25; Caffeine: 1.01



IHBT-125 (Khalag-04)



IHBT-125 (Khalag-04)

Accession No. : IHBT-126
Accession Code : Khalet-05

Type : Chinary; semi-arbour
Source : Khalet Tea Estate, Palampur
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, green (138 B), lanceolate shape, serrulate, smooth leaf surface, leaf apex recurved
Internode length : 3.05 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium and gynoecium at same height, 8 petals
Quality traits (%) : EC: 0.85; ECG: 2.51; EGC: 2.24; EGCG: 5.25; C: 1.42; TC: 12.27; Caffeine: 1.62



IHBT-126 (Khalet-05)



IHBT-126 (Khalet-05)

Accession No. : IHBT-127

Accession Code : Khilpat-05

Type : Chinary; semi-arbour
Source : Khilpat Tea Estate, Palampur
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, dark green (147-A), lanceolate, serrulate, smooth leaf surface, leaf apex recurved
Internode length : 2.85 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, androecium and gynoecium at same height, 7 petals
Quality traits (%) : EC: 1.38; ECG: 3.9; EGC: 3.78; EGCG: 11.94; C: 1.43; TC: 22.43; Caffeine: 3.84



IHBT-127 (Khilpat-05)



IHBT-127 (Khilpat-05)

Accession No. : IHBT-128

Accession Code : Khilpat-15



IHBT-128 (Khilpat-15)



IHBT-128 (Khilpat-15)

Type : Chinary; shrub
Source : Khilpat, Palampur
Location : Germplasm Block A

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, biserrate, smooth leaf surface, acute apex
Internode length : 3.19 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.35; ECG: 0.64; EGC: 6.95; EGCG: 13.91; C: 0.28; TC: 21.97; Caffeine: 3.7

Accession No. : IHBT-129

Accession Code : KMJ-08

Type : Chinary; semi-arbour

Source : Gwaland Tea Estate, Kumaon, Uttarakhand

Location : Germplasm Block B



Unique features

Flushing time : Mid season flush

Mature leaf type : Small, green, elliptic, serrulate, smooth leaf surface, blunt recurved apex

Internode length : 3.64 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: ND; ECG: 0.59; EGC: 0.64; EGCG: 9.6; C: 0.25; TC: 11.4; Caffeine: 5.2

IHBT-129 (KMJ-08)



IHBT-129 (KMJ-08)

Accession No. : IHBT-130

Accession Code : KMJ-09



IHBT-130 (KMJ-09)



IHBT-130 (KMJ-09)

Type : Chinary; semi-arbour

Source : June Tea Estate, Kumaon, Uttarakhand

Location : Germplasm Block B

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium size, elliptic, dark green, biserrate margin, leaf apex down turned (recurved), yellow green petiole, smooth leaf surface,

Internode length : 4.06 cm

Two and a bud traits : green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium, 6-8 petals

Quality traits (%) : EC: 0.25; ECG: 0.7; EGC: 5.6; EGCG: 11.8; C: 0.26; TC: 19.03; Caffeine: 6.4

Accession No. : IHBT-131

Accession Code : Lahla-01

Type : Chinary; semi-arbour
Source : Wah Tea Estate, Palampur
Location : Germplasm Block E



IHBT-131 (Lahla-01)

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, oblong, biserrate margin, smooth leaf surface, blunt recurved apex
Internode length : 2.74 cm
Two and a bud traits : Yellow green colour, dense pubescence
Shoots density : Low
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.72; ECG: 2.23; EGC: 2.02; EGCG: 4.91; C: 1.1; TC: 10.98; Caffeine: 1.35



IHBT-131 (Lahla-01)

Accession No. : IHBT-132

Accession Code : Mahalpat-02



IHBT-132 (Mahalpat-02)



IHBT-132 (Mahalpat-02)

Type : Chinary; semi-arbour

Source : Mahalpat Tea Garden, Palampur

Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green (147 A), lanceolate, serrulate margin, smooth leaf surface, acute recurved apex
Internode length : 1.85 cm
Two and a bud traits : Yellow green (146 A) colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.94; ECG: 3.54; EGC: 3.6; EGCG: 10.7; C: 1.49; TC: 20.27; Caffeine: 2.82

Accession No. : IHBT-133
Accession Code : Mahalpat-05

Type : Chinary; semi-arbour
Source : Mahalpat Tea Garden, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium-large, dark green, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.11 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.39; ECG: 2.31; EGC: 0.91; EGCG: 7.84; C: 1.26; TC: 12.71; Caffeine: 2.86



IHBT-133 (Mahalpat-05)



IHBT-133 (Mahalpat-05)

Accession No. : IHBT-134
Accession Code : Mahalpat-07

Type : Chinary; semi-arbour
Source : Mahalpat Tea Garden, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, serrulate, rugose leaf surface, acute straight apex
Internode length : 1.39 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.83; ECG: 2.75; EGC: 2.15; EGCG: 6.25; C: 1.42; TC: 13.40; Caffeine: 2.44



IHBT-134 (Mahalpat-07)



IHBT-134 (Mahalpat-07)

Accession No. : IHBT-135
Accession Code : Mansimbal-07

Type : Chinary; semi-arbour
Source : Mansimbal Tea Garden, Palampur
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green (146 B), oblong, serrulate margin, rugose leaf surface, acute recurved apex
Internode length : 2.49 cm
Two and a bud traits : Green (144 A) colour, intermediate pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.85; ECG: 2.37; EGC: 1.83; EGCG: 3.99; C: 1.40; TC: 10.44; Caffeine: 1.76



IHBT-135 (Mansimbal-07)



IHBT-135 (Mansimbal-07)

Accession No. : IHBT-136
Accession Code : Mansimbal-08

Type : Chinary; semi-arbour
Source : Mansimbal Tea Garden, Palampur
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.05 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.77; ECG: 2.57; EGC: 2.01; EGCG: 6.12; C: 1.37; TC: 12.84; Caffeine: 1.80



IHBT-136 (Mansimbal-08)



IHBT-136 (Mansimbal-08)

Accession No. : IHBT-137
Accession Code : Mansimbal-10

Type : Chinary; semi-arbour
Source : Mansimbal Tea Garden, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.89 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.82; ECG: 3.12; EGC: 2.37; EGCG: 8.81; C: 1.53; TC: 16.65; Caffeine: 2.93



IHBT-137 (Mansimbal-10)



IHBT-137 (Mansimbal-10)

Accession No. : IHBT-138
Accession Code : Mansimbal-12



IHBT-138 (Mansimbal-12)



IHBT-138 (Mansimbal-12)

Type : Chinary; semi-arbour
Source : Mansimbal Tea Garden, Palampur
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : large, light green (146-A), lanceolate, serrulate, smooth leaf surface, leaf apex recurved
Internode length : 1.59 cm
Two and a bud traits : Yellow green colour (144-A), dense pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, androecium and gynoecium at same height, 6 petals
Quality traits (%) : EC: 0.96; ECG: 2.43; EGC: 1.24; EGCG: 4.76; C: 1.84; TC: 11.23; Caffeine: 1.64

Accession No. : IHBT-139
Accession Code : Mansimbal-17

Type : Chinary; semi-arbour
Source : Mansimbal Tea Garden, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : small, dark green, serrulate margin, leaf apex recurved, smooth leaf surface
Internode length : 1.98 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.65; ECG: 3.62; EGC: 1.55; EGCG: 4.28; C: 1.39; TC: 11.49; Caffeine: 2.14



IHBT-139 (Mansimbal-17)



IHBT-139 (Mansimbal-17)

Accession No. : IHBT-140
Accession Code : Patta-01

Type : Chinary; semi-arbour
Source : Patta Tea Garden, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, lanceolate, serrulate, rugose leaf surface, acute recurved apex
Internode length : 2.57 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.96; ECG: 2.97; EGC: 1.82; EGCG: 5.42; C: 1.40; TC: 12.57; Caffeine: 2.02



IHBT-140 (Patta-01)



IHBT-140 (Patta-01)

Accession No. : IHBT-141
Accession Code : Raipur-04

Type : Chinary; semi-arbour
Source : Raipur Tea Estate, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Small-medium, dark green, serrulate, smooth leaf surface, acute recurved apex
Internode length : 1.81 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.65; ECG: 2.71; EGC: 2.27; EGCG: 8.34; C: 1.38; TC: 15.06; Caffeine: 2.53



IHBT-141 (Raipur-04)



IHBT-141 (Raipur-04)

Accession No. : IHBT-142
Accession Code : RYDAK-1

Type : Chinary; shrub
Source : Rydak Tea Estate, Jalpaiguri, West Bengal
Location : Germplasm Block A

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, serrulate margin, leaf apex blunt straight, smooth leaf surface
Internode length : 3.33 cm
Two and a bud traits : Green colour, dense pubescence
Shoots density : Intermediate
Floral traits : Clusters of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: ND; ECG: 0.76; EGC: 0.59; EGCG: 6.95; C: 0.44; TC: 9.43; Caffeine: 6.8



IHBT-142 (RYDAK-1)



IHBT-142 (RYDAK-01)

Accession No. : IHBT-143

Accession Code : Saloh-01

Type : Chinary; semi-arbour
Source : Saloh Tea Garden, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 1.68 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.75; ECG: 2.93; EGC: 2.41; EGCG: 6.84; C: 1.44; TC: 14.38; Caffeine: 2.30



IHBT-143 (Saloh-01)



IHBT-143 (Saloh-01)

Accession No. : IHBT-144

Accession Code : SA-6

Type : Chinary; shrub
Source : Tea Research Institute (TRI), UPASI, Valparai, Tamil Nadu
Location : Germplasm Block G & Museum Block

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium size, lanceolate, yellow green, serrulate margin, leaf apex attenuate down turned (recurved), yellow green petiole, waxy smooth leaf surface
Internode length : 2.64 cm
Two and a bud traits : green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium, 6-7 petals
Quality traits (%) : EC: 0.17; ECG: 0.68; EGC: 4.68; EGCG: 14.0; C: 0.25; TC: 20.3; Caffeine: 6.8



IHBT-144 (SA-6)



IHBT-144 (SA-6)

Accession No. : IHBT-145

Accession Code : Saloh-02

Type : Chinary; semi-arbour
Source : Saloh Tea Garden, Palampur
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, serrulate, smooth leaf surface, acute recurved apex
Internode length : 2.91 cm
Two and a bud traits : Purple colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 1.01; ECG: 2.91; EGC: 2.88; EGCG: 6.80; C: 1.44; TC: 15.05; Caffeine: 2.4



IHBT-145 (Saloh-02)



IHBT-145 (Saloh-02)

Accession No. : IHBT-146

Accession Code : Seed Stock-01

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, dark green (147 A), ovate, serrulate margin, rugose leaf surface, acute recurved apex
Internode length : 2.73 cm
Two and a bud traits : Green (144 B) colour, dense pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.63; ECG: 1.4; EGC: 2.31; EGCG: 6.79; C: 1.43; TC: 12.56; Caffeine: 2.26



IHBT-146 (Seed Stock-01)



IHBT-146 (Seed Stock-01)

Accession No. : IHBT-147
Accession Code : Seed Stock-05

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, yellow green, ovate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 1.85 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.37; ECG: 3.03; EGC: 0.89; EGCG: 7.73; C: 1.46; TC: 13.48; Caffeine: 2.61



IHBT-147 (Seed Stock-05)



IHBT-147 (Seed Stock-05)

Accession No. : IHBT-148
Accession Code : Seed Stock-07

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, serrulate, smooth leaf surface, leaf apex recurved
Internode length : 3.02 cm
Two and a bud traits : Yellow-green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.52; ECG: 3.41; EGC: 2.10; EGCG: 10.7; C: 1.47; TC: 17.94; Caffeine: 2.62



IHBT-148 (Seed Stock-07)



IHBT-148 (Seed Stock-07)

Accession No. : IHBT-149
Accession Code : Seed Stock-09

Type : Chinary; semi-arbour
Source : Tea Experimental Farm, Banuri, CSIR-IHBT
Location : Germplasm Block G

Unique features

Flushing time : Early
Mature leaf type : large, dark green, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 1.99 cm
Two and a bud traits : Green colour, intermediate pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.87; ECG: 1.65; EGC: 3.59; EGCG: 6.78; C: 1.41; TC: 14.3; Caffeine: 1.78



IHBT-149 (Seed Stock-09)



IHBT-149 (Seed Stock-09)

Accession No. : IHBT-150
Accession Code : Sidhbhari-01

Type : Chinary; semi-arbour
Source : Sidhbhari Tea Estate, Dharamshala
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, dark green (147-A), oblong, serrulate, smooth leaf surface, leaf apex recurved, leaf base rounded
Internode length : 4.78 cm
Two and a bud traits : Yellow green colour (152-A), dense pubescence
Shoots density : Intermediate
Floral traits : Solitary flowers in axil, androecium and gynoecium at same height, 8 petals
Quality traits (%) : EC: 0.638; ECG: 2.35; EGC: 1.96; EGCG: 6.045; C: 1.416; TC: 12.409; Caffeine: 1.89



IHBT-150 (Sidhbhari-01)



IHBT-150 (Sidhbhari-01)

Accession No. : IHBT-151
Accession Code : Sidhbari-02

Type : Chinary; semi-arbour
Source : Sidhbari Tea Estate, Dharamshala
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 2.91 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.41; ECG: 2.49; EGC: 2.14; EGCG: 6.43; C: 1.61; TC: 13.08; Caffeine: 2.94



IHBT-151 (Sidhbari-02)



IHBT-151 (Sidhbari-02)

Accession No. : IHBT-152
Accession Code : Sidhbari-05

Type : Chinary; semi-arbour
Source : Sidhbari Tea Estate, Dharamshala
Location : Germplasm Block E

Unique features

Flushing time : Mid season flush
Mature leaf type : Small, dark green, lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface
Internode length : 1.49 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.55; ECG: 1.83; EGC: 1.95; EGCG: 3.60; C: 1.37; TC: 9.31; Caffeine: 1.10



IHBT-152 (Sidhbari-05)



IHBT-152 (Sidhbari-05)

Accession No. : IHBT-153

Accession Code : T-78

Type : Chinary; shrub

Source : Tukdah Tea Estate, Darjeeling

Location : Germplasm Block A & B

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green, serrulate margin, leaf apex acute, smooth leaf surface

Internode length : 3.16 cm

Two and a bud traits : Green colour, dense pubescence

Shoots density : Dense

Floral traits : Axillary Cluster of flowers, gynoecium higher than androecium

Quality traits (%) : EC: 0.14; ECG: 0.69; EGC: 3.2; EGCG: 12.97; C: 0.26; TC: 17.33; Caffeine: 3.7



IHBT-153 (T-78)



IHBT-153 (T-78)

Accession No. : IHBT-154

Accession Code : T-383



IHBT-154 (T-383)

Type : Chinary; semi-arbour

Source : Tukdah Tea Estate, Darjeeling

Location : Germplasm Block C

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, green (138 B), lanceolate, serrulate margin, smooth leaf surface, acute, recurved apex

Internode length : 3.82 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.82; ECG: 3.33; EGC: 2.59; EGCG: 9.54; C: 1.55; TC: 17.84; Caffeine: 2.83



IHBT-154 (T-383)

Accession No. : IHBT-155

Accession Code : Teen Ali

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : small, yellow-green, oblong, serrulate margin, smooth leaf surface, acute recurved apex

Internode length : 3.55 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.84; ECG: 0.95; EGC: 5.38; EGCG: 16.95; C: 0.41; TC: 14.25; Caffeine: 6.3



IHBT-155 (Teen Ali)



IHBT-155 (Teen Ali)

Accession No. : IHBT-156

Accession Code : TG 270

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Small, green, lanceolate, serrulate margin, leaf apex blunt recurved, rugose leaf surface

Internode length : 2.1 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.78; ECG: 0.66; EGC: 2.97; EGCG: 11.8; C: 0.25; TC: 16.7; Caffeine: 4.5



IHBT-156 (TG 270)



IHBT-156 (TG 270)

Accession No. : IHBT-157
Accession Code : Thurbo-03

Type : Chinary; semi-arbour
Source : Thurbo Tea Estate, Darjeeling
Location : Germplasm Block D

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green (138 A), ovate, serrulate margin, smooth leaf surface, acute recurved apex
Internode length : 2.09 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.61; ECG: 2.55; EGC: 1.51; EGCG: 2.3; C: 1.42; TC: 8.39; Caffeine: 1.42



IHBT-157 (Thurbo-03)



IHBT-157 (Thurbo-03)

Accession No. : IHBT-158
Accession Code : Thurbo-09

Type : Chinary; semi-arbour
Source : Thurbo Tea Estate, Darjeeling
Location : Germplasm Block D

Unique features

Flushing time : Mid season flush
Mature leaf type : large, green (138 B), lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface
Internode length : 3.61 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.62; ECG: 2.44; EGC: 1.34; EGCG: 2.05; C: 1.68; TC: 8.13; Caffeine: 2.19



IHBT-158 (Thurbo-09)



IHBT-158 (Thurbo-09)

Accession No. : IHBT-159

Accession Code : TS-379

Type : Assamica; semi-arbour

Source : Tea Research Association, Tocklai, Assam

Location : Germplasm Block A



IHBT-159 (TS-379)

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green, serrulate, smooth leaf surface, acute recurved apex

Internode length : 2.87 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 1.0; ECG: 0.67; EGC: 2.67; EGCG: 10.1; C: 0.27; TC: 14.8; Caffeine: 5.2



IHBT-159 (TS-379)

Accession No. : IHBT-160

Accession Code : TS-449



IHBT-160 (TS-449)

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium-large, yellow-green, lanceolate, serrulate margin, rugose leaf surface, acute recurved apex

Internode length : 2.47 cm

Two and a bud traits : Yellow-green colour, high pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height

Quality traits (%) : EC: 0.21; ECG: 0.58; EGC: 2.0; EGCG: 5.85; C: 0.26; TC: 9.5; Caffeine: 5.5



IHBT-160 (TS-449)

Accession No. : IHBT-161

Accession Code : TS-464

Type : Assamica; semi-arbour
Source : Tea Research Association (TRA), Tocklai, Assam
Location : Germplasm Block A



IHBT-161 (TS-464)



IHBT-161 (TS-464)

Accession No. : IHBT-162

Accession Code : TTL-01



IHBT-162 (TTL-01)



IHBT-162 (TTL-01)

Type : Cambod; semi-arbour

Source : Tata Tea Limited, Munnar

Location : Germplasm Block G

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, dark green, Lanceolate shaped, serrulate margins; waxy, rugose leaf surface, down turned (recurved)

Internode length : 3.6 cm

Two and a bud traits : Yellow green colour, sparse pubescence

Shoots density : intermediate

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium, 7-9 petals

Quality traits (%) : EC: 0.65; ECG: 2.46; EGC: 2.67; EGCG: 8.65; C: 1.39; TC: 15.82; Caffeine: 2.70

Accession No. : IHBT-163

Accession Code : TTL-02

Type : Chinary; semi-arbour
Source : Tata Tea Limited, Munnar
Location : Germplasm Block G

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, dark green (147 A), lanceolate, serrulate margin, leaf apex attenuate recurved, smooth leaf surface
Internode length : 1.97 cm
Two and a bud traits : Yellow green (151 B) colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Solitary terminal flowers, gynoecium and androecium at same height
Quality traits (%) : EC: 0.84; ECG: 2.82; EGC: 4.06; EGCG: 9.41; C: 1.61; TC: 18.74; Caffeine: 2.60



IHBT-163 (TTL-02)



IHBT-163 (TTL-02)

Accession No. : IHBT-164

Accession Code : TV-01



IHBT-164 (TV-01)



IHBT-164 (TV-01)

Type : Assam-China hybrid; semi-arbour
Source : Tea Research Association (TRA), Tocklai, Assam
Location : Germplasm Museum Block

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, oblong, serrulate margin, leaf apex blunt recurved, rugose leaf surface
Internode length : 3.62 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.85; ECG: 1.12; EGC: 2.44; EGCG: 14.4; C: 0.53; TC: 20.6; Caffeine: 6.0

Accession No. : IHBT-165

Accession Code : TV-02

Type : Assamica; semi-arbour

Source : Tea Research Association, Tocklai, Assam

Location : Germplasm Block C

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, green (138 B), lanceolate, serrulate margin, leaf apex acute recurved, smooth leaf surface

Internode length : 7.18 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height, 6 petals

Quality traits (%) : EC: 0.78; ECG: 2.33; EGC: 3.44; EGCG: 7.94; C: 1.67; TC: 16.16; Caffeine: 2.42



IHBT-165 (TV-02)



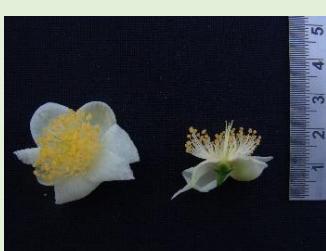
IHBT-165 (TV-02)

Accession No. : IHBT-166

Accession Code : TV-03



IHBT-166 (TV-03)



IHBT-166 (TV-03)

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Small-medium, green, oblong, entire margin, smooth leaf surface, blunt recurved apex

Internode length : 3.98 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 3.5; ECG: 0.4; EGC: 6.5; EGCG: 12.3; C: 0.31; TC: 14.25; Caffeine: 6.8

Accession No. : IHBT-167

Accession Code : TV-04

Type : Assamica; semi-arbour
Source : Tea Research Association (TRA), Tocklai, Assam
Location : Germplasm Block C



IHBT-167 (TV-04)

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, yellow-green, serrulate, rugose leaf surface, blunt tip
Internode length : 2.75 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.84; ECG: 0.71; EGC: 4.4; EGCG: 12.41; C: 0.26; TC: 18.63; Caffeine: 4.9



IHBT-167 (TV-04)

Accession No. : IHBT-168

Accession Code : TV-05



IHBT-168 (TV-05)



IHBT-168 (TV-05)

Type : Assamica; semi-arbour
Source : Tea Research Association (TRA), Tocklai, Assam
Location : Germplasm Block C

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, yellow-green, lanceolate, wavy margin, leaf apex blunt, rugose leaf surface
Internode length : 1.99 cm
Two and a bud traits : Green colour, intermediate pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than Gynoecium
Quality traits (%) : EC: 0.07; ECG: 0.6; EGC: 2.92; EGCG: 12.9; C: 0.27; TC: 16.7; Caffeine: 5.68

Accession No. : IHBT-169

Accession Code : TV-12

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block C



IHBT-169 (TV-12)

Internode length : 2.36 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil and androecium higher than gynoecium

Quality traits (%) : EC: 0.89; ECG: 0.9; EGC: 3.74; EGCG: 10.03; C: 0.4; TC: 16.3; Caffeine: 5.2



IHBT-169 (TV-12)

Accession No. : IHBT-170

Accession Code : TV-13



IHBT-170 (TV-13)

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Small-medium, yellow-green, oblong, entire margin, leaf apex acute recurved, smooth leaf surface

Internode length : 2.24 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil flowers, gynoecium higher than androecium

Quality traits (%) : EC: 0.04; ECG: 0.9; EGC: 1.63; EGCG: 12.4; C: 0.33; TC: 15.7; Caffeine: 5.68



IHBT-170 (TV-13)

Accession No. : IHBT-171

Accession Code : TV-16

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block A



IHBT-171 (TV-16)

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green, biserrated margin, leaf apex acute recurved, smooth leaf surface

Internode length : 3.34 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 1.45; ECG: 0.19; EGC: 5.6; EGCG: 13.5; C: 0.25; TC: 22.0; Caffeine: 6.0



IHBT-171 (TV-16)

Accession No. : IHBT-172

Accession Code : TV-17



IHBT-172 (TV-17)

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, light green, biserrate, rugose leaf surface, acute recurved apex

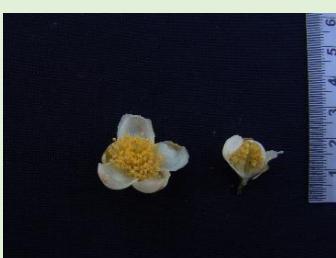
Internode length : 2.76 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 1.14; ECG: 0.71; EGC: 3.06; EGCG: 12.4; C: 0.49; TC: 18.53; Caffeine: 6.4



IHBT-172 (TV-17)

Accession No. : IHBT-173

Accession Code : TV-19

Type : Cambod; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, dark green, elliptic, wavy, rugose leaf surface, blunt tip

Internode length : 2.3 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than Gynoecium

Quality traits (%) : EC: 0.53; ECG: 0.89; EGC: 2.45; EGCG: 11.45; C: 0.41; TC: 16.34; Caffeine: 6.2



IHBT-173 (TV-19)



IHBT-173 (TV-19)

Accession No. : IHBT-174

Accession Code : TV-20



IHBT-174 (TV-20)



IHBT-174 (TV-20)

Type : Cambod; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium-large, green, serrulate margin, leaf apex blunt recurved, smooth leaf surface

Internode length : 3.78 cm

Two and a bud traits : Green colour, sparse pubescence

Shoots density : Intermediate

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.6; ECG: 0.6; EGC: 5.1; EGCG: 15; C: 0.29; TC: 21.6; Caffeine: 6.07

Accession No. : IHBT-175

Accession Code : TV-22

Type : Assamica; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block D

Unique features

Flushing time : Mid season flush

Mature leaf type : Medium, green, oblong, entire margin, smooth leaf surface, blunt recurved apex

Internode length : 3.41 cm

Two and a bud traits : Yellow-green colour, sparse pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, androecium higher than gynoecium

Quality traits (%) : EC: 0.9; ECG: 0.79; EGC: 4.45; EGCG: 10.7; C: 0.25; TC: 17.44; Caffeine: 4.2



IHBT-175 (TV-22)



IHBT-175 (TV-22)

Accession No. : IHBT-176

Accession Code : TV-23

Type : Cambod; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam

Location : Germplasm Block A

Unique features

Flushing time : Mid season flush

Mature leaf type : Large, yellow-green, elliptic, serrulate margin, leaf apex acute straight, smooth leaf surface

Internode length : 1.99 cm

Two and a bud traits : Green colour, intermediate pubescence

Shoots density : Dense

Floral traits : Cluster of flowers in axil, gynoecium higher than androecium

Quality traits (%) : EC: 0.05; ECG: 0.65; EGC: 1.54; EGCG: 11.9; C: 0.3; TC: 14.44; Caffeine: 6.0



IHBT-176 (TV-23)



IHBT-176 (TV-23)

Accession No. : IHBT-177

Accession Code : TV-25

Type : Cambod; semi-arbour
Source : Tea Research Association (TRA), Tocklai, Assam
Location : Germplasm Block A

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium-large, green, biserrate, smooth leaf surface, acute tip down turned
Internode length : 3.5 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.47; ECG: 0.7; EGC: 4.35; EGCG: 14.19; C: 0.28; TC: 20.0; Caffeine: 5.68



IHBT-177 (TV-25)



IHBT-177 (TV-25)

Accession No. : IHBT-178

Accession Code : TV-26



IHBT-178 (TV-26)



IHBT-178 (TV-26)

Type : Cambod; semi-arbour

Source : Tea Research Association (TRA), Tocklai, Assam
Location : Germplasm Block C

Unique features

Flushing time : Mid season flush
Mature leaf type : large, green, serrulate, smooth leaf surface, blunt recurved apex
Internode length : 2.93 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 3.58; ECG: 0.9; EGC: 6.5; EGCG: 12.4; C: 0.27; TC: 23.6; Caffeine: 4.9

Accession No. : IHBT-179

Accession Code : UPASI-02

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Block C



IHBT-179 (UPASI-02)

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, serrulate margin, leaf apex acute recurved, rugose leaf surface
Internode length : 1.48 cm
Two and a bud traits : Yellow green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, androecium higher than gynoecium
Quality traits (%) : EC: 0.54; ECG: 0.6; EGC: 4.8; EGCG: 5.36; C: 0.38; TC: 11.79; Caffeine: 4.69



IHBT-179 (UPASI-02)

Accession No. : IHBT-180

Accession Code : UPASI-03

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Block A



IHBT-180 (UPASI-03)



IHBT-180 (UPASI-03)

Unique features

Flushing time : Mid season flush
Mature leaf type : Large, green, lanceolate, serrulate margin, leaf apex acute recurved, rugose leaf surface
Internode length : 2.78 cm
Two and a bud traits : Green colour, intermediate pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 0.96; ECG: 0.63; EGC: 6.59; EGCG: 11.8; C: 0.28; TC: 20.33; Caffeine: 6.8

Accession No. : IHBT-181

Accession Code : UPASI-06

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Block C



Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, oblong, serrulate margin , smooth leaf surface, acute recurved apex
Internode length : 3.41 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.28; ECG: 0.65; EGC: 3.2; EGCG: 5.3; C: 0.3; TC: 9.73; Caffeine: 4.2

IHBT-181 (UPASI-06)



IHBT-181 (UPASI-06)

Accession No. : IHBT-182

Accession Code : UPASI-09

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Block A



IHBT-182 (UPASI-09)



IHBT-182 (UPASI-09)

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium-large, green, biserrated margin, leaf apex acute recurved, smooth leaf surface
Internode length : 3.45 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium is higher than Gynoecium
Quality traits (%) : EC: 0.9; ECG: 0.71; EGC: 7.5; EGCG: 12.2; C: 0.25; TC: 21.7; Caffeine: 6.4

Accession No. : IHBT-183

Accession Code : UPASI-10

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Section -11D

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, yellow-green, serrulate margin, leaf apex recurved, smooth leaf surface
Internode length : 2.78 cm
Two and a bud traits : Yellow-green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 0.62; ECG: 0.78; EGC: 5.45; EGCG: 10.2; C: 0.39; TC: 17.58; Caffeine: 6.2



IHBT-183 (UPASI-10)



IHBT-183 (UPASI-10)

Accession No. : IHBT-184

Accession Code : UPASI-11

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Block C

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, dark green, lanceolate, serrulate margin, rugose leaf surface, acute recurved apex
Internode length : 2.80 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Intermediate
Floral traits : Cluster of flowers in axil, androecium is higher than gynoecium
Quality traits (%) : EC: 0.47; ECG: 0.7; EGC: 4.3; EGCG: 15.19; C: 0.28; TC: 21.03; Caffeine: 5.6



IHBT-184 (UPASI-11)



IHBT-184 (UPASI-11)

Accession No. : IHBT-185

Accession Code : UPASI-13

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Block C

Unique features

Flushing time : Mid season flush
Mature leaf type : large, dark green, serrulate margin, rugose leaf surface, acute straight tip
Internode length : 1.93 cm
Two and a bud traits : Yellow-green colour, intermediate pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: ND; ECG: 0.52; EGC: 0.2; EGCG: 0.4; C: 0.37; TC: 2.09; Caffeine: 2.77



IHBT-185 (UPASI-13)



IHBT-185 (UPASI-13)

Accession No. : IHBT-186

Accession Code : UPASI-15

Type : Chinary; semi-arbour
Source : Springfield Estate, Valparai, Tamil Nadu
Location : Germplasm Block C

Unique features

Flushing time : Mid season flush
Mature leaf type : Small-medium, green, oblong, serrulate margin, leaf apex blunt straight, smooth leaf surface
Internode length : 2.13 cm
Two and a bud traits : Green colour, intermediate pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium and androecium at same height
Quality traits (%) : EC: 1.2; ECG: 0.65; EGC: 5.8; EGCG: 8.2; C: 0.21; TC: 16.0; Caffeine: 4.0



IHBT-186 (UPASI-15)



IHBT-186 (UPASI-15)

Accession No. : IHBT-187

Accession Code : UPASI-18

Type : Assamica; semi-arbour
Source : Brookland Tea Estate, Valparai, Tamil Nadu
Location : Germplasm Block C

Unique features

Flushing time : Mid season flush
Mature leaf type : Medium, green, lanceolate, serrulate margin, leaf apex blunt recurved, smooth leaf surface
Internode length : 2.4 cm
Two and a bud traits : Green colour, sparse pubescence
Shoots density : Dense
Floral traits : Cluster of flowers in axil, gynoecium higher than androecium
Quality traits (%) : EC: 1.35; ECG: 0.92; EGC: 7.0; EGCG: 15.2; C: 0.39; TC: 15.45; Caffeine: 6.9



IHBT-187 (UPASI-18)



IHBT-187 (UPASI-18)

Early flusher accessions

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-39	BS-02	31	26	IHBT-86	BS-70	54
2	IHBT-40	BS-03	31	27	IHBT-87	BS-71	55
3	IHBT-43	BS-07	33	28	IHBT-88	BS-74	55
4	IHBT-44	BS-08	33	29	IHBT-89	BS-75	56
5	IHBT-46	BS-11	34	30	IHBT-90	BS-76	56
6	IHBT-50	BS-16	36	31	IHBT-92	BS-79	57
7	IHBT-51	BS-18	37	32	IHBT-93	BS-80	58
8	IHBT-52	BS-19	37	33	IHBT-94	BS-81	58
9	IHBT-53	BS-21	38	34	IHBT-95	BS-85	59
10	IHBT-55	BS-23	39	35	IHBT-97	BS-89	60
11	IHBT-59	BS-31	41	36	IHBT-98	BS-90	60
12	IHBT-60	BS-34	41	37	IHBT-99	BS-91	61
13	IHBT-61	BS-37	42	38	IHBT-101	BS-93	62
14	IHBT-64	BS-42	43	39	IHBT-103	BS-96	63
15	IHBT-65	BS-43	44	40	IHBT-106	BS-102	64
16	IHBT-66	BS-44	44	41	IHBT-107	BS-103	65
17	IHBT-69	BS-48	46	42	IHBT-108	BS-104	65
18	IHBT-71	BS-50	47	43	IHBT-109	BS-105	66
19	IHBT-72	BS-52	47	44	IHBT-110	BS-106	66
20	IHBT-76	BS-56	49	45	IHBT-112	BS-108	67
21	IHBT-77	BS-58	50	46	IHBT-113	BS-109	68
22	IHBT-78	BS-60	50	47	IHBT-114	BS-110	68
23	IHBT-79	BS-62	51	48	IHBT-116	CEF-01	69
24	IHBT-82	BS-66	52	49	IHBT-117	CEF-02	70
25	IHBT-83	BS-67	53	50	IHBT-118	CEF-03	70

List of accessions with low shoot density

S. No.	Accession No.	Accession Code	Page No.
1	IHBT-101	BS-93	62
2	IHBT-68	BS-47	45
3	IHBT-99	BS-91	61
4	IHBT-107	BS-103	65
5	IHBT-131	Lahla-01	77
6	IHBT-18	BGP-119	20
7	IHBT-162	TTL-01	92
8	IHBT-20	BGP-122	21
9	IHBT-42	BS-06	32
10	IHBT-36	Bhattu-22	29
11	IHBT-163	TTL-02	93
12	IHBT-149	Seed Stock-09	86
13	IHBT-70	BS-49	46
14	IHBT-95	BS-85	59
15	IHBT-147	Seed Stock-05	85
16	IHBT-14	BGP-69	18
17	IHBT-23	BGP-126	23
18	IHBT-75	BS-55	49
19	IHBT-59	BS-31	41
20	IHBT-60	BS-34	41
21	IHBT-19	BGP-121	21
22	IHBT-143	Saloh-01	83
23	IHBT-94	BS-81	58
24	IHBT-41	BS-05	32
25	IHBT-116	CEF-01	69

List of accessions with intermediate shoot density

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-126	Khalet-05	74	33	IHBT-113	BS-109	68
2	IHBT-124	Khalag-02	73	34	IHBT-53	BS-21	38
3	IHBT-56	BS-24	41	35	IHBT-110	BS-106	64
4	IHBT-10	BGP-63	16	36	IHBT-88	BS-74	55
5	IHBT-37	BL/9/3/76	30	37	IHBT-52	BS-19	37
6	IHBT-165	TV-02	94	38	IHBT-145	Saloh-02	84
7	IHBT-30	BGP-146	26	39	IHBT-77	BS-58	50
8	IHBT-43	BS-07	33	40	IHBT-96	BS-86	61
9	IHBT-46	BS-11	34	41	IHBT-17	BGP-118	20
10	IHBT-102	BS-95	62	42	IHBT-24	BGP-127	23
11	IHBT-71	BS-50	47	43	IHBT-93	BS-80	58
12	IHBT-27	BGP-138	25	44	IHBT-54	BS-22	38
13	IHBT-140	Patta-01	81	45	IHBT-03	Baijnath-04	13
14	IHBT-79	BS-62	51	46	IHBT-04	Banuri Jat	13
15	IHBT-151	Sidhbhari-02	87	47	IHBT-22	BGP-125	22
16	IHBT-148	Seed Stock-07	85	48	IHBT-28	BGP-141	25
17	IHBT-39	BS-02	31	49	IHBT-31	BGP-151	27
18	IHBT-65	BS-43	44	50	IHBT-33	BGP-156	28
19	IHBT-100	BS-92	61	51	IHBT-35	BGP-158	29
20	IHBT-150	Sidhbhari-01	86	52	IHBT-57	BS-26	40
21	IHBT-05	BB-668	14	53	IHBT-119	CPF-01	71
22	IHBT-09	BGP-31	16	54	IHBT-129	KMJ-08	76
23	IHBT-133	Mahalpat-05	78	55	IHBT-142	RYDAK-1	82
24	IHBT-12	BGP-67	17	56	IHBT-152	Sidhbhari-05	87
25	IHBT-105	BS-99	64	57	IHBT-159	TS-379	91
26	IHBT-51	BS-18	37	58	IHBT-161	TS-464	92
27	IHBT-80	BS-64	51	59	IHBT-169	TV-12	96
28	IHBT-146	Seed Stock-01	84	60	IHBT-170	TV-13	96
29	IHBT-111	BS-107	67	61	IHBT-171	TV-16	97
30	IHBT-109	BS-105	66	62	IHBT-172	TV-17	97
31	IHBT-139	Mansimbal-17	81	63	IHBT-174	TV-20	98
32	IHBT-44	BS-08	33	64	IHBT-184	UPASI-11	103

List of accessions with high shoot density

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-154	T-383	88	50	IHBT-135	Mansimbal-07	79
2	IHBT-06	BGP-17	14	51	IHBT-92	BS-79	57
3	IHBT-86	BS-70	54	52	IHBT-136	Mansimbal-08	79
4	IHBT-02	Baijnath-01	12	53	IHBT-157	Thurbo-03	90
5	IHBT-07	BGP-19	15	54	IHBT-158	Thurbo-09	90
6	IHBT-58	BS-29	40	55	IHBT-55	BS-23	39
7	IHBT-72	BS-52	47	56	IHBT-11	BGP-66	17
8	IHBT-98	BS-90	60	57	IHBT-64	BS-42	43
9	IHBT-29	BGP-144	26	58	IHBT-82	BS-66	52
10	IHBT-63	BS-40	43	59	IHBT-69	BS-48	46
11	IHBT-47	BS-12	35	60	IHBT-117	CEF-02	70
12	IHBT-16	BGP-73	19	61	IHBT-25	BGP-133	24
13	IHBT-90	BS-76	56	62	IHBT-50	BS-16	36
14	IHBT-83	BS-67	53	63	IHBT-48	BS-13	35
15	IHBT-13	BGP-68	15	64	IHBT-182	UPASI-09	103
16	IHBT-45	BS-09	34	65	IHBT-01	AV-02	12
17	IHBT-134	Mahalpat-07	78	66	IHBT-38	BS-01	30
18	IHBT-114	BS-110	68	67	IHBT-49	BS-14	36
19	IHBT-97	BS-89	60	68	IHBT-62	BS-38	42
20	IHBT-104	BS-98	63	69	IHBT-67	BS-46	45
21	IHBT-76	BS-56	49	70	IHBT-73	BS-53	48
22	IHBT-138	Mansimbal-12	80	71	IHBT-74	BS-54	48
23	IHBT-78	BS-60	50	72	IHBT-81	BS-65	52
24	IHBT-118	CEF-03	70	73	IHBT-84	BS-68	53
25	IHBT-89	BS-75	56	74	IHBT-115	CR-6017	69
26	IHBT-61	BS-37	42	75	IHBT-120	CSIN-303536	71
27	IHBT-123	Kangra Jat	73	76	IHBT-130	KMJ-09	76
28	IHBT-21	BGP-123	22	77	IHBT-144	SA-6	83
29	IHBT-106	BS-102	64	78	IHBT-153	T-78	88
30	IHBT-121	HV-39	72	79	IHBT-128	Khilpat-15	75
31	IHBT-108	BS-104	65	80	IHBT-155	Teen Ali	89
32	IHBT-141	Raipur-04	82	81	IHBT-156	TG 270	89
33	IHBT-85	BS-69	54	82	IHBT-160	TS-449	91
34	IHBT-26	BGP-137	24	83	IHBT-164	TV-01	93
35	IHBT-125	Khalag-04	74	84	IHBT-166	TV-03	94
36	IHBT-66	BS-44	44	85	IHBT-167	TV-04	95
37	IHBT-91	BS-77	57	86	IHBT-168	TV-05	95
38	IHBT-08	BGP-28	15	87	IHBT-173	TV-19	98
39	IHBT-122	Kangra Asha	72	88	IHBT-175	TV-22	99
40	IHBT-137	Mansimbal-10	80	89	IHBT-176	TV-23	99
41	IHBT-34	BGP-157	28	90	IHBT-177	TV-25	100
42	IHBT-127	Khilpat-05	75	91	IHBT-178	TV-26	100
43	IHBT-40	BS-03	31	92	IHBT-179	UPASI-02	101
44	IHBT-15	BGP-72	19	93	IHBT-180	UPASI-03	101
45	IHBT-112	BS-108	67	94	IHBT-181	UPASI-06	102
46	IHBT-87	BS-71	53	95	IHBT-183	UPASI-10	102
47	IHBT-132	Mahalpat-02	77	96	IHBT-185	UPASI-13	104
48	IHBT-32	BGP-152	27	97	IHBT-186	UPASI-15	104
49	IHBT-103	BS-96	63	98	IHBT-187	UPASI-18	105

List of accessions with small leaf size

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-39	BS-02	31	30	IHBT-24	BGP-127	23
2	IHBT-108	BS-104	65	31	IHBT-140	Patta-01	81
3	IHBT-72	BS-52	47	32	IHBT-13	BGP-68	18
4	IHBT-64	BS-42	43	33	IHBT-122	Kangra Asha	52
5	IHBT-51	BS-18	37	34	IHBT-138	Mansimbal-12	80
6	IHBT-44	BS-08	33	35	IHBT-76	BS-56	49
7	IHBT-110	BS-106	66	36	IHBT-139	Mansimbal-17	81
8	IHBT-40	BS-03	31	37	IHBT-15	BGP-72	19
9	IHBT-93	BS-80	58	38	IHBT-18	BGP-119	20
10	IHBT-147	Seed Stock-05	85	39	IHBT-46	BS-11	34
11	IHBT-98	BS-90	60	40	IHBT-69	BS-48	46
12	IHBT-107	BS-103	65	41	IHBT-86	BS-70	54
13	IHBT-79	BS-62	51	42	IHBT-77	BS-58	50
14	IHBT-61	BS-37	42	43	IHBT-02	Baijnath-01	12
15	IHBT-53	BS-21	38	44	IHBT-21	BGP-123	22
16	IHBT-88	BS-74	55	45	IHBT-41	BS-05	32
17	IHBT-65	BS-43	44	46	IHBT-06	BGP-17	14
18	IHBT-66	BS-44	44	47	IHBT-151	Sidhbari-02	87
19	IHBT-89	BS-75	56	48	IHBT-83	BS-67	53
20	IHBT-19	BGP-121	21	49	IHBT-131	Lahla-01	77
21	IHBT-95	BS-85	59	50	IHBT-118	CEF-03	70
22	IHBT-143	Saloh-01	83	51	IHBT-112	BS-108	67
23	IHBT-113	BS-109	68	52	IHBT-120	CSIN-303536	71
24	IHBT-01	AV-02	12	53	IHBT-129	KMJ-08	76
25	IHBT-38	BS-01	30	54	IHBT-155	Teen Ali	89
26	IHBT-49	BS-14	36	55	IHBT-156	TG 270	89
27	IHBT-74	BS-54	48	56	IHBT-170	TV-13	96
28	IHBT-84	BS-68	53	57	IHBT-175	TV-22	99
29	IHBT-115	CR-6017	69	58	IHBT-186	UPASI-15	104

List of accessions with medium leaf size

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-50	BS-16	36	44	IHBT-136	Mansimbal-08	79
2	IHBT-90	BS-76	56	45	IHBT-34	BGP-157	28
3	IHBT-141	Raipur-04	82	46	IHBT-66	BS-44	44
4	IHBT-07	BGP-19	15	47	IHBT-117	CEF-02	70
5	IHBT-116	CEF-01	69	48	IHBT-75	BS-55	49
6	IHBT-08	BGP-28	15	49	IHBT-106	BS-102	64
7	IHBT-43	BS-07	33	50	IHBT-10	BGP-63	16
8	IHBT-12	BGP-67	17	51	IHBT-121	HV-39	72
9	IHBT-55	BS-23	39	52	IHBT-96	BS-86	59
10	IHBT-82	BS-66	52	53	IHBT-125	Khalag-04	54
11	IHBT-92	BS-79	57	54	IHBT-100	BS-92	61
12	IHBT-134	Mahalpat-07	78	55	IHBT-105	BS-99	64
13	IHBT-111	BS-107	67	56	IHBT-102	BS-95	62
14	IHBT-109	BS-105	66	57	IHBT-157	Thurbo-03	90
15	IHBT-14	BGP-69	15	58	IHBT-149	Seed Stock-09	86
16	IHBT-135	Mansimbal-07	79	59	IHBT-71	BS-50	47
17	IHBT-60	BS-34	41	60	IHBT-03	Baijnath-04	13
18	IHBT-137	Mansimbal-10	80	61	IHBT-04	Banuri Jat	13
19	IHBT-132	Mahalpat-02	77	62	IHBT-22	BGP-125	22
20	IHBT-103	BS-96	63	63	IHBT-28	BGP-141	25
21	IHBT-29	BGP-144	26	63	IHBT-31	BGP-151	27
22	IHBT-47	BS-12	35	65	IHBT-32	BGP-152	27
23	IHBT-20	BGP-122	21	66	IHBT-33	BGP-156	28
24	IHBT-97	BS-89	60	67	IHBT-57	BS-26	40
25	IHBT-09	BGP-31	16	68	IHBT-62	BS-38	42
26	IHBT-52	BS-19	37	69	IHBT-67	BS-46	45
27	IHBT-59	BS-31	41	70	IHBT-73	BS-53	48
28	IHBT-114	BS-110	68	71	IHBT-81	BS-65	52
29	IHBT-23	BGP-126	23	72	IHBT-128	Khilpat-15	75
30	IHBT-94	BS-81	58	73	IHBT-130	KMJ-09	76
31	IHBT-30	BGP-146	26	74	IHBT-142	RYDAK-1	82
32	IHBT-145	Saloh-02	84	75	IHBT-144	SA-6	83
33	IHBT-91	BS-77	57	76	IHBT-153	T-78	88
34	IHBT-17	BGP-118	20	77	IHBT-159	TS-379	91
35	IHBT-16	BGP-73	19	78	IHBT-160	TS-449	91
36	IHBT-11	BGP-66	17	79	IHBT-164	TV-01	93
37	IHBT-133	Mahalpat-05	78	80	IHBT-166	TV-03	94
38	IHBT-32	BGP-152	27	81	IHBT-167	TV-04	95
39	IHBT-54	BS-22	38	82	IHBT-168	TV-05	95
40	IHBT-26	BGP-137	24	83	IHBT-169	TV-12	96
41	IHBT-99	BS-91	61	84	IHBT-171	TV-16	97
42	IHBT-101	BS-93	62	85	IHBT-172	TV-17	97
43	IHBT-25	BGP-133	24	86	IHBT-173	TV-19	98

Contd...

Contd. : List of accessions with medium leaf size

S. No.	Accession No.	Accession Code	Page No.
87	IHBT-148	Seed Stock-07	85
88	IHBT-124	Khalag-02	73
89	IHBT-85	BS-69	54
90	IHBT-104	BS-98	63
91	IHBT-36	Bhattu-22	29
92	IHBT-123	Kangra Jat	73
93	IHBT-87	BS-71	55
94	IHBT-174	TV-20	98
95	IHBT-177	TV-25	100
96	IHBT-179	UPASI-02	101
97	IHBT-181	UPASI-06	102
98	IHBT-183	UPASI-10	103
99	IHBT-184	UPASI-11	103
100	IHBT-187	UPASI-18	105

Annexure-III C**List of accessions with large leaf size**

S. No.	Accession No.	Accession Code	Page No.
1	IHBT-58	BS-29	40
2	IHBT-127	Khilpat-05	75
3	IHBT-56	BS-24	39
4	IHBT-27	BGP-138	25
5	IHBT-78	BS-60	50
6	IHBT-154	T-383	88
7	IHBT-163	TTL-02	93
8	IHBT-42	BS-06	32
9	IHBT-05	BB-668	14
10	IHBT-63	BS-40	43
11	IHBT-150	Sidhbari-01	86
12	IHBT-126	Khalet-05	74
13	IHBT-68	BS-47	45
14	IHBT-162	TTL-01	82
15	IHBT-48	BS-13	35
16	IHBT-80	BS-64	51
17	IHBT-158	Thurbo-09	90
18	IHBT-146	Seed Stock-01	84
19	IHBT-45	BS-09	24
20	IHBT-37	BL/9/3/76	30
21	IHBT-182	UPASI-09	102
22	IHBT-165	TV-02	94
23	IHBT-35	BGP-158	29
24	IHBT-161	TS-464	92
25	IHBT-176	TV-23	99
26	IHBT-178	TV-26	100
27	IHBT-180	UPASI-03	101
28	IHBT-185	UPASI-13	104

Annexure-IV A**List of accessions with short internode length**

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-44	BS-08	33	26	IHBT-76	BS-56	49
2	IHBT-107	BS-103	65	27	IHBT-39	BS-02	31
3	IHBT-64	BS-42	43	28	IHBT-118	CEF-03	70
4	IHBT-27	BGP-138	25	29	IHBT-29	BGP-144	26
5	IHBT-53	BS-21	38	30	IHBT-143	Saloh-01	83
6	IHBT-69	BS-48	46	31	IHBT-51	BS-18	37
7	IHBT-65	BS-43	44	32	IHBT-141	Raipur-04	82
8	IHBT-79	BS-62	51	33	IHBT-132	Mahalpat-02	77
9	IHBT-99	BS-91	61	34	IHBT-147	Seed Stock-05	85
10	IHBT-40	BS-03	31	35	IHBT-72	BS-52	47
11	IHBT-66	BS-44	44	36	IHBT-121	HV-39	72
12	IHBT-134	Mahalpat-07	78	37	IHBT-23	BGP-126	23
13	IHBT-86	BS-70	54	38	IHBT-43	BS-07	33
14	IHBT-24	BGP-127	23	39	IHBT-145	Saloh-02	84
15	IHBT-93	BS-80	58	40	IHBT-06	BGP-17	14
16	IHBT-46	BS-11	34	41	IHBT-116	CEF-01	69
17	IHBT-21	BGP-123	22	42	IHBT-61	BS-37	42
18	IHBT-152	Sidhbari-05	87	43	IHBT-15	BGP-72	19
19	IHBT-50	BS-16	36	44	IHBT-163	TTL-02	93
20	IHBT-110	BS-106	66	45	IHBT-139	Mansimbal-17	81
21	IHBT-98	BS-90	60	46	IHBT-95	BS-85	59
22	IHBT-09	BGP-31	16	47	IHBT-94	BS-81	58
23	IHBT-138	Mansimbal-12	80	48	IHBT-16	BGP-73	19
24	IHBT-55	BS-23	39	49	IHBT-89	BS-75	56
25	IHBT-104	BS-98	63				

List of accessions with medium internode length

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-13	BGP-68	18	27	IHBT-90	BS-76	56
2	IHBT-136	Mansimbal-08	79	28	IHBT-14	BGP-69	18
3	IHBT-77	BS-58	50	29	IHBT-88	BS-74	55
4	IHBT-157	Thurbo-03	90	30	IHBT-30	BGP-146	26
5	IHBT-133	Mahalpat-05	78	31	IHBT-140	Patta-01	81
6	IHBT-47	BS-12	35	32	IHBT-56	BS-24	39
7	IHBT-07	BGP-19	15	33	IHBT-10	BGP-63	16
8	IHBT-83	BS-67	33	34	IHBT-11	BGP-66	17
9	IHBT-18	BGP-119	20	35	IHBT-124	Khalag-02	73
10	IHBT-70	BS-49	46	36	IHBT-20	BGP-122	21
11	IHBT-36	Bhattu-22	29	37	IHBT-125	Khalag-04	73
12	IHBT-19	BGP-121	21	38	IHBT-146	Seed Stock-01	84
13	IHBT-112	BS-108	67	39	IHBT-17	BGP-118	20
14	IHBT-12	BGP-67	17	40	IHBT-131	Lahla-01	77
15	IHBT-08	BGP-28	15	41	IHBT-58	BS-29	40
16	IHBT-60	BS-34	41	42	IHBT-105	BS-99	64
17	IHBT-117	CEF-02	70	43	IHBT-26	BGP-137	24
18	IHBT-123	Kangra Jat	73	44	IHBT-109	BS-105	66
19	IHBT-25	BGP-133	24	45	IHBT-127	Khilpat-05	75
20	IHBT-02	Baijnath-01	12	46	IHBT-137	Mansimbal-10	80
21	IHBT-91	BS-77	57	47	IHBT-151	Sidhbari-02	87
22	IHBT-75	BS-55	49	48	IHBT-122	Kangra Asha	72
23	IHBT-34	BGP-157	28	49	IHBT-68	BS-47	45
24	IHBT-149	Seed Stock-09	86	50	IHBT-101	BS-93	62
25	IHBT-32	BGP-152	27	51	IHBT-106	BS-102	64
26	IHBT-135	Mansimbal-07	79				

List of accessions with long internode length

S. No.	Accession No.	Accession Code	Page No.
1	IHBT-148	Seed Stock-07	85
2	IHBT-126	Khalet-05	74
3	IHBT-102	BS-95	62
4	IHBT-97	BS-89	60
5	IHBT-54	BS-22	38
6	IHBT-59	BS-31	41
7	IHBT-87	BS-71	55
8	IHBT-111	BS-107	67
9	IHBT-103	BS-96	63
10	IHBT-52	BS-19	37
11	IHBT-182	UPASI-09	102
12	IHBT-114	BS-110	68
13	IHBT-162	TTL-01	72
14	IHBT-158	Thurbo-09	90
15	IHBT-63	BS-40	43
16	IHBT-82	BS-66	52
17	IHBT-78	BS-60	50
18	IHBT-100	BS-92	61
19	IHBT-71	BS-50	47
20	IHBT-85	BS-69	54
21	IHBT-80	BS-64	51
22	IHBT-154	T-383	88
23	IHBT-05	BB-668	14
24	IHBT-96	BS-86	59
25	IHBT-37	BL/9/3/76	28
26	IHBT-45	BS-09	34
27	IHBT-113	BS-109	68
28	IHBT-42	BS-06	32
29	IHBT-92	BS-79	57
30	IHBT-48	BS-13	35
31	IHBT-150	Sidhbari-01	86
32	IHBT-108	BS-104	65
33	IHBT-41	BS-05	32
34	IHBT-165	TV-02	94

Annexure-V**Accessions with purple young shoot (two and a bud)**

S. No.	Accession No.	Accession Code	Page No.
1	IHBT-01	AV-02	12
2	IHBT-09	BGP-31	16
3	IHBT-13	BGP-68	18
4	IHBT-14	BGP-69	18
5	IHBT-19	BGP-121	21
6	IHBT-21	BGP-123	22
7	IHBT-23	BGP-126	23
8	IHBT-25	BGP-133	24
9	IHBT-26	BGP-137	24
10	IHBT-38	BS-01	30
11	IHBT-44	BS-08	33
12	IHBT-52	BS-19	37
13	IHBT-55	BS-23	39
14	IHBT-57	BS-26	40
15	IHBT-62	BS-38	42
16	IHBT-71	BS-50	47
17	IHBT-73	BS-53	48
18	IHBT-77	BS-58	50
19	IHBT-78	BS-60	50
20	IHBT-79	BS-62	51
21	IHBT-84	BS-68	53
22	IHBT-89	BS-75	56
23	IHBT-105	BS-99	64
24	IHBT-112	BS-108	67
25	IHBT-122	Kangra Asha	72
26	IHBT-127	Khilpat-05	75
27	IHBT-128	Khilpat-15	75
28	IHBT-133	Mahalpat-05	78
29	IHBT-139	Mansimbal-17	81
30	IHBT-141	Raipur-04	82
31	IHBT-145	Saloh-02	84

Annexure-VI**List of accessions with dense pubescence (two and a bud)**

S. No.	Accession No.	Accession Code	Page No.
1	IHBT-01	AV-02	12
2	IHBT-03	Baijnath-04	13
3	IHBT-06	BGP-17	14
4	IHBT-07	BGP-19	15
5	IHBT-08	BGP-28	15
6	IHBT-09	BGP-31	16
7	IHBT-13	BGP-68	18
8	IHBT-14	BGP-69	18
9	IHBT-15	BGP-72	19
10	IHBT-17	BGP-118	20
11	IHBT-19	BGP-121	21
12	IHBT-27	BGP-138	25
13	IHBT-28	BGP-141	25
14	IHBT-33	BGP-156	28
15	IHBT-35	BGP-158	29
16	IHBT-38	BS-01	30
17	IHBT-51	BS-18	37
18	IHBT-52	BS-19	37
19	IHBT-57	BS-26	40
20	IHBT-60	BS-34	41
21	IHBT-67	BS-46	45
22	IHBT-72	BS-52	47
23	IHBT-73	BS-53	48
24	IHBT-74	BS-54	48
25	IHBT-76	BS-56	49
26	IHBT-78	BS-60	50
27	IHBT-97	BS-89	60
28	IHBT-101	BS-93	62
29	IHBT-109	BS-105	66
30	IHBT-112	BS-108	67
31	IHBT-116	CEF-01	69
32	IHBT-131	Lahla-01	77
33	IHBT-138	Mansimbal-12	80
34	IHBT-142	RYDAK-01	82

Annexure-VII A**List of accessions with low total catechin content (%)**

S. No.	Accession No.	Accession Code	Page No.
1	IHBT-112	BS-108	67
2	IHBT-109	BS-105	66
3	IHBT-92	BS-79	57
4	IHBT-42	BS-06	32
5	IHBT-124	Khalag-02	73
6	IHBT-82	BS-66	52
7	IHBT-48	BS-13	35
8	IHBT-158	Thurbo-09	90
9	IHBT-93	BS-80	58
10	IHBT-98	BS-90	60
11	IHBT-39	BS-02	31
12	IHBT-157	Thurbo-03	90
13	IHBT-95	BS-85	58
14	IHBT-94	BS-81	58
15	IHBT-41	BS-05	32
16	IHBT-88	BS-74	55
17	IHBT-125	Khalag-04	74
18	IHBT-64	BS-42	43
19	IHBT-63	BS-40	43
20	IHBT-99	BS-91	61
21	IHBT-61	BS-37	42
22	IHBT-97	BS-89	60
23	IHBT-52	BS-19	37
24	IHBT-43	BS-07	33
25	IHBT-46	BS-11	34
26	IHBT-185	UPASI-13	104
27	IHBT-49	BS-14	36
28	IHBT-142	RYDAK-1	82
29	IHBT-160	TS-449	91
30	IHBT-181	UPASI-06	102

List of accessions with intermediate total catechin content (%)

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-69	BS-48	46	45	IHBT-182	UPASI-09	102
2	IHBT-100	BS-92	61	46	IHBT-78	BS-60	50
3	IHBT-135	Mansimbal-07	79	47	IHBT-123	Kangra Jat	73
4	IHBT-68	BS-47	45	48	IHBT-149	Seed Stock-09	66
5	IHBT-36	Bhattu-22	29	49	IHBT-45	BS-09	34
6	IHBT-110	BS-106	66	50	IHBT-143	Saloh-01	63
7	IHBT-54	BS-22	38	51	IHBT-17	BGP-118	20
8	IHBT-83	BS-67	53	52	IHBT-53	BS-21	38
9	IHBT-108	BS-104	65	53	IHBT-89	BS-75	56
10	IHBT-131	Lahla-01	77	54	IHBT-75	BS-55	49
11	IHBT-72	BS-52	47	55	IHBT-14	BGP-69	18
12	IHBT-65	BS-43	44	56	IHBT-80	BS-64	51
13	IHBT-138	Mansimbal-12	80	57	IHBT-113	BS-109	68
14	IHBT-66	BS-44	44	58	IHBT-145	Saloh-02	87
15	IHBT-139	Mansimbal-17	81	59	IHBT-141	Raipur-04	82
16	IHBT-44	BS-08	33	60	IHBT-106	BS-102	64
17	IHBT-59	BS-31	41	61	IHBT-47	BS-12	35
18	IHBT-51	BS-18	37	62	IHBT-13	BGP-68	18
19	IHBT-10	BGP-63	16	63	IHBT-77	BS-58	50
20	IHBT-102	BS-95	62	64	IHBT-55	BS-23	39
21	IHBT-90	BS-76	56	65	IHBT-24	BGP-127	23
22	IHBT-27	BGP-138	25	66	IHBT-56	BS-24	39
23	IHBT-126	Khalet-05	74	67	IHBT-34	BGP-157	28
24	IHBT-150	Sidhbari-01	86	68	IHBT-05	BB-668	14
25	IHBT-86	BS-70	54	69	IHBT-71	BS-50	47
26	IHBT-85	BS-69	54	70	IHBT-162	TTL-01	92
27	IHBT-146	Seed Stock-01	84	71	IHBT-96	BS-86	59
28	IHBT-140	Patta-01	81	72	IHBT-25	BGP-133	24
29	IHBT-91	BS-77	57	73	IHBT-120	CSIN-303536	71
30	IHBT-133	Mahalpat-05	78	74	IHBT-129	KMJ-08	76
31	IHBT-58	BS-29	40	75	IHBT-179	UPASI-02	101
32	IHBT-136	Mansimbal-08	79	76	IHBT-73	BS-53	48
33	IHBT-121	HV-39	72	77	IHBT-32	BGP-152	27
34	IHBT-79	BS-62	51	78	IHBT-62	BS-38	42
35	IHBT-151	Sidhbari-02	87	79	IHBT-81	BS-65	52
36	IHBT-134	Mahalpat-07	78	80	IHBT-57	BS-26	40
37	IHBT-87	BS-71	55	81	IHBT-04	Banuri Jat	13
38	IHBT-32	BGP-152	27	82	IHBT-155	Teen Ali	89
39	IHBT-147	Seed Stock-05	85	83	IHBT-166	TV-03	94
40	IHBT-20	BGP-122	21	84	IHBT-176	TV-23	99
41	IHBT-70	BS-49	46	85	IHBT-159	TS-379	91
42	IHBT-02	Baijnath-01	12	86	IHBT-187	UPASI-18	105
43	IHBT-08	BGP-28	15	87	IHBT-170	TV-13	96
44	IHBT-11	BGP-66	17				

List of accessions with high total catechin content (%)

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-09	BGP-31	16	36	IHBT-127	Khilpat-05	75
2	IHBT-19	BGP-121	21	37	IHBT-18	BGP-119	20
3	IHBT-165	TV-02	94	38	IHBT-28	BGP-141	25
4	IHBT-111	BS-107	67	39	IHBT-186	UPASI-15	104
5	IHBT-26	BGP-137	24	40	IHBT-67	BS-46	45
6	IHBT-104	BS-98	63	41	IHBT-169	TV-12	96
7	IHBT-107	BS-103	65	42	IHBT-173	TV-19	98
8	IHBT-137	Mansimbal-10	80	43	IHBT-156	TG 270	89
9	IHBT-117	CEF-02	70	44	IHBT-168	TV-05	95
10	IHBT-40	BS-03	31	45	IHBT-161	TS-464	92
11	IHBT-16	BGP-73	19	46	IHBT-35	BGP-158	29
12	IHBT-76	BS-56	49	47	IHBT-38	BS-01	30
13	IHBT-119	CPF-01	71	48	IHBT-74	BS-54	48
14	IHBT-103	BS-96	63	49	IHBT-153	T-78	88
15	IHBT-30	BGP-146	26	50	IHBT-22	BGP-125	22
16	IHBT-101	BS-93	62	51	IHBT-175	TV-22	99
17	IHBT-37	BL/9/3/76	30	52	IHBT-183	UPASI-10	103
18	IHBT-12	BGP-67	17	53	IHBT-03	Baijnath-04	13
19	IHBT-116	CEF-01	69	54	IHBT-172	TV-17	97
20	IHBT-122	Kangra Asha	72	55	IHBT-167	TV-04	95
21	IHBT-114	BS-110	68	56	IHBT-31	BGP-151	27
22	IHBT-07	BGP-19	15	57	IHBT-33	BGP-156	28
23	IHBT-118	CEF-03	70	58	IHBT-130	KMJ-09	76
24	IHBT-154	T-383	88	59	IHBT-177	TV-25	100
25	IHBT-06	BGP-17	14	60	IHBT-144	SA-6	83
26	IHBT-148	Seed Stock-07	85	61	IHBT-180	UPASI-03	101
27	IHBT-60	BS-34	41	62	IHBT-164	TV-01	93
28	IHBT-163	TTL-02	93	63	IHBT-184	UPASI-11	103
29	IHBT-21	BGP-123	22	64	IHBT-174	TV-20	98
30	IHBT-105	BS-99	64	65	IHBT-128	Khilpat-15	75
31	IHBT-15	BGP-72	19	66	IHBT-171	TV-16	97
32	IHBT-29	BGP-144	26	67	IHBT-115	CR-6017	69
33	IHBT-23	BGP-126	23	68	IHBT-84	BS-68	53
34	IHBT-132	Mahalpat-02	77	69	IHBT-178	TV-26	100
35	IHBT-50	BS-16	36	70	IHBT-01	AV-02	12

Annexure-VIII A**List of accessions with low caffeine content (%)**

S. No.	Accession No.	Accession Code	Page No.
1	IHBT-125	Khalag-04	74
2	IHBT-124	Khalag-02	73
3	IHBT-152	Sidhbari-05	87
4	IHBT-102	BS-95	62
5	IHBT-92	BS-79	57
6	IHBT-42	BS-06	32
7	IHBT-131	Lahla-01	77
8	IHBT-157	Thurbo-03	90
9	IHBT-121	HV-39	72
10	IHBT-36	Bhattu-22	29
11	IHBT-126	Khalet-05	74
12	IHBT-138	Mansimbal-12	80
13	IHBT-82	BS-66	52
14	IHBT-85	BS-69	54
15	IHBT-123	Kangra Jat	73
16	IHBT-86	BS-70	54
17	IHBT-64	BS-42	43
18	IHBT-135	Mansimbal-07	79
19	IHBT-52	BS-19	37
20	IHBT-149	Seed Stock-09	86
21	IHBT-136	Mansimbal-08	79
22	IHBT-109	BS-105	66
23	IHBT-46	BS-11	34
24	IHBT-150	Sidhbari-01	86
25	IHBT-48	BS-13	35
26	IHBT-54	BS-22	38
27	IHBT-04	Banuri Jat	13

List of accessions with intermediate caffeine content (%)

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-10	BGP-63	16	48	IHBT-112	BS-108	67
2	IHBT-95	BS-85	59	49	IHBT-103	BS-96	63
3	IHBT-140	Patta-01	81	50	IHBT-05	BB-668	14
4	IHBT-69	BS-48	46	51	IHBT-119	CPF-01	72
5	IHBT-43	BS-07	33	52	IHBT-47	BS-12	35
6	IHBT-96	BS-86	59	53	IHBT-141	Raipur-04	83
7	IHBT-72	BS-52	47	54	IHBT-11	BGP-66	17
8	IHBT-94	BS-81	58	55	IHBT-17	BGP-118	20
9	IHBT-51	BS-18	37	56	IHBT-71	BS-50	47
10	IHBT-158	Thurbo-09	90	57	IHBT-75	BS-55	49
11	IHBT-58	BS-29	40	58	IHBT-163	TTL-02	93
12	IHBT-139	Mansimbal-17	81	59	IHBT-147	Seed Stock-05	85
13	IHBT-08	BGP-28	15	60	IHBT-148	Seed Stock-07	85
14	IHBT-100	BS-92	61	61	IHBT-26	BGP-137	24
15	IHBT-65	BS-43	44	62	IHBT-45	BS-09	34
16	IHBT-68	BS-47	45	63	IHBT-60	BS-34	41
17	IHBT-66	BS-44	44	64	IHBT-162	TTL-01	93
18	IHBT-93	BS-80	58	65	IHBT-06	BGP-17	14
19	IHBT-99	BS-91	61	66	IHBT-101	BS-93	62
20	IHBT-63	BS-40	43	67	IHBT-91	BS-77	57
21	IHBT-88	BS-74	55	68	IHBT-77	BS-58	50
22	IHBT-146	Seed Stock-01	84	69	IHBT-55	BS-23	39
23	IHBT-98	BS-90	60	70	IHBT-25	BGP-133	24
24	IHBT-14	BGP-69	18	71	IHBT-15	BGP-72	19
25	IHBT-182	UPASI-09	102	72	IHBT-07	BGP-19	15
26	IHBT-97	BS-89	60	73	IHBT-34	BGP-157	28
27	IHBT-83	BS-67	53	74	IHBT-116	CEF-01	69
28	IHBT-143	Saloh-01	83	75	IHBT-50	BS-16	36
29	IHBT-134	Mahalpat-07	78	76	IHBT-20	BGP-122	31
30	IHBT-41	BS-05	32	77	IHBT-13	BGP-68	18
31	IHBT-110	BS-106	66	78	IHBT-111	BS-107	67
32	IHBT-113	BS-109	68	79	IHBT-132	Mahalpat-02	77
33	IHBT-24	BGP-127	23	80	IHBT-154	T-383	88
34	IHBT-145	Saloh-02	84	81	IHBT-133	Mahalpat-05	78
35	IHBT-39	BS-02	31	82	IHBT-78	BS-60	50
36	IHBT-80	BS-64	51	83	IHBT-118	CEF-03	70
37	IHBT-106	BS-102	64	84	IHBT-09	BGP-31	16
38	IHBT-108	BS-104	65	85	IHBT-137	Mansimbal-10	80
39	IHBT-40	BS-03	31	86	IHBT-90	BS-76	56
40	IHBT-165	TV-02	94	87	IHBT-151	Sidhbhari-02	87
41	IHBT-79	BS-62	51	88	IHBT-44	BS-08	33
42	IHBT-53	BS-21	38	89	IHBT-19	BGP-121	21
43	IHBT-37	BL/9/3/76	30	90	IHBT-32	BGP-152	27
44	IHBT-12	BGP-67	17	91	IHBT-33	BGP-156	28
45	IHBT-70	BS-49	46	92	IHBT-35	BGP-158	29
46	IHBT-16	BGP-73	19	93	IHBT-185	UPASI-13	104
47	IHBT-56	BS-24	39				

Annexure-VIII C

List of accessions with high caffeine content (%)

S. No.	Accession No.	Accession Code	Page No.	S. No.	Accession No.	Accession Code	Page No.
1	IHBT-122	Kangra Asha	72	35	IHBT-120	CSIN-303536	71
2	IHBT-02	Baijnath-01	12	36	IHBT-128	Khilpat-15	75
3	IHBT-114	BS-110	68	37	IHBT-129	KMJ-08	76
4	IHBT-29	BGP-144	26	38	IHBT-130	KMJ-09	76
5	IHBT-76	BS-56	49	39	IHBT-142	RYDAK-1	82
6	IHBT-87	BS-71	55	40	IHBT-144	SA-6	83
7	IHBT-104	BS-98	63	41	IHBT-153	T-78	88
8	IHBT-23	BGP-126	23	42	IHBT-155	Teen Ali	89
9	IHBT-30	BGP-146	26	43	IHBT-156	TG 270	89
10	IHBT-117	CEF-02	70	44	IHBT-159	TS-379	91
11	IHBT-107	BS-103	64	45	IHBT-160	TS-449	91
12	IHBT-21	BGP-123	22	46	IHBT-161	TS-464	92
13	IHBT-27	BGP-138	25	47	IHBT-164	TV-01	93
14	IHBT-105	BS-99	64	48	IHBT-166	TV-03	94
15	IHBT-18	BGP-119	20	49	IHBT-167	TV-04	95
16	IHBT-127	Khilpat-05	75	50	IHBT-168	TV-05	95
17	IHBT-59	BS-31	41	51	IHBT-169	TV-12	96
18	IHBT-61	BS-37	42	52	IHBT-170	TV-13	96
19	IHBT-89	BS-75	56	53	IHBT-171	TV-16	97
20	IHBT-01	AV-02	12	54	IHBT-172	TV-17	97
21	IHBT-03	Baijnath-04	13	55	IHBT-173	TV-19	98
22	IHBT-22	BGP-125	22	56	IHBT-174	TV-20	98
23	IHBT-28	BGP-141	25	57	IHBT-175	TV-22	99
24	IHBT-31	BGP-151	27	58	IHBT-176	TV-23	99
25	IHBT-38	BS-01	30	59	IHBT-177	TV-25	100
26	IHBT-49	BS-14	36	60	IHBT-178	TV-26	100
27	IHBT-57	BS-26	40	61	IHBT-179	UPASI-02	101
28	IHBT-62	BS-38	42	62	IHBT-180	UPASI-03	101
29	IHBT-67	BS-46	45	63	IHBT-181	UPASI-06	102
30	IHBT-73	BS-53	48	64	IHBT-183	UPASI-10	103
31	IHBT-74	BS-54	48	65	IHBT-184	UPASI-11	103
32	IHBT-81	BS-65	52	66	IHBT-186	UPASI-15	104
33	IHBT-84	BS-68	53	67	IHBT-187	UPASI-18	105
34	IHBT-115	CR-6017	69				

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