সার্কুলার নং- ১৪০
Circular No. 140

বিটিআরআই

তারিখ: ৬ আশ্বিন ১৪২৩
September 23, 2016

ক্লোন বিটি২০ এর অবমুক্তি
RELEASE OF CLONE BT20

বাংলাদেশ চা গবেষণা ইনস্টিটিউট
অঙ্গ প্রতিষ্ঠান, বাংলাদেশ চা বোর্ড
শ্রীমঙ্গল-৩২১০, মৌলভীবাজার।

evsjv‡`k Pv M‡elYv Bbw÷wUDU

kxg½j-3210, ‡gŠjfxevRvi

mvKjvi bs : **140** ZwiL: 23 †m‡Þ¤i, 2016 wL.

†Kvb wewU20 Gi Aegy³

fwgKv

evsjv‡`‡ki Pv Avevw` GjvKvi ep,`vskB ¯í Drcv`b¶g exR Pvjv Øvjv Avev`KZ.I Iv‡Uva eq‡mi cÖvjv‡bv AbyZ Pv MvQ| ZvB Drcw`Z Pv‡qi ¸YMZgvbI Avkvby‡c bq| wejc Avenv IqvRwbZ Kvi‡Y Drcv`b nvm, †mB m‡½ ewaZ Drcv`b LiP Pv wk‡í ¯í cwšK A_‰bwZK jv‡fi Ab¨Zg Kvi‡Y| Gme Kvi‡YB Pv‡qi byZb ev cÖv: Avevw`‡Z AwaK djbkxj I DbZgvb m¤cb Ges †mB m‡½ Liv I †ivMevjvB mnbkxj DbZRv‡Zi Pv‡qi Pvjv e¨envi Acwinvh n‡q c‡o‡Q|

Pv Drcv`bKvix me †`‡kB †Kvbvj wm‡jKkb cwµqv †gvUvgyjd GKB ai‡bi| Bbw÷wUD‡Ui †Kvbvj wm‡jKkb I msKivqb M‡elYv Khµ‡gi AvIZvq G chš 18wU D"Pdjb I ¸YMZ gvbm¤cb DbZ Rv‡Zi †Kvb wewUAviAvB n‡Z Pv wk‡íi Rb¨ wegy³ Kiv n‡q‡Q| Zb¥a¨ AwaKvskB Pv wk‡í h‡_ó Rbwcq Zv †c‡q‡Q| GKB avivewnKZvq evsjv‡`k Pv M‡elYv Bbw÷wUDU Zvi D™weZ †Kvbmg‡ni m‡½ beZi ms‡hvRb wn‡m‡e G/8/8 mvs‡KwZK bv‡g †iKWfz³ I cwiwPZ †KvbwU‡K **wewU20** bv‡g Avi I GKwU D"P djbkxj I ¸YMZ gvbm¤cb †Kv‡bi Aegy³ †NvlYv Ki‡Q |

wewU20 Gi Drm I cix¶Y

wewU20 †KvbwU WvbKvb ev`vm (evsjv‡`k) wjwg‡U‡Wi e¨e¯vaxb Avgy³v evMv‡bi 8bs †mKkb n‡Z evQvB Kiv nq| Pv evMvbwU j¯‹icÖvY f¨vwj‡Z Ae¯Z, hv LivceY GjvKv bv‡g cwiwPZ| †mKkbwU‡Z 1993 m‡b cv_wgK wm‡jKk‡bi KvR ïiæ Kiv nq| wbewPZ gvZe„¶ ¸‡jvi Ab¨Zg G/8/8 ms‡KZhy³ MvQwU mec_g 09.05.1994 Zwi‡L wPwýZ Kiv nq|
wbewPZ MvQ¸‡jvi `xN chvqµwgK QvKwb cwµqv‡š 1996 m‡b Av‡jvP¨ ‡Kvb, m¤vebvgq Avi I wZbwU †Kvb Ges GKwU we‡`kx †Kvb (wUwf1) gvb wbqvgK wn‡m‡e wewUAviAvB Lvgv‡i cwimsL¨wbK wbq‡g ¯wcZ GK `xN †gqv`x Drcv`b I ¸YMZgvb wbYqx cix¶vi Aš—³ Kiv nq| `xN 12 eQ‡ii wbix¶vq G/8/8 ms‡KZfz³ †KvbwU cvß eq¯‹ Ae¯vq Drcv`b, ¸YMZgvb, bvmwi, Liv mwnòZv BZ¨w` gvV ch‡e¶‡Y m¤vebvgq †Kvb wn‡m‡e wbwðZ cZxqgvb n‡q‡Q|

mvaviY ^ewkó¨

†KvbwU gj¬Z Avmvg Rv‡Zi| Gi KvÛ myÁvg I myeb¨¯| Mv‡Qi MVb KvVv‡gv gvSwi AvKwZi I kvLv-ckvLv Lvov Mo‡bi| QwUvB DËi bZzb wKkj‡qi AvMgb I ew„× h‡_ó m‡švlRbK| MvQwUi cvZvi is

ga¨g mejR, gvSwi n‡Z eo AvKwZi Ges gm¸Y| cvZv Kv‡Ûi m‡½ Lvov Ae¯vb wewkó (Erect leaf pose)| cvZvi AMfvM cj¤Z (Pointed apex) Ges cwimxgv myjg LvBKvUv| PqbZj †ek Nb Ges myjg we¯Z.cPz Pqb‡hvM¨ cje wewkó| Pqbcje †Kvgj I gvSwi AvKwZi|

mviwY 1. weU20 I wUwf1 Gi Zzjbvgj¨K Aw½K ˆewkó¨

µ.bs	ˆewkó¨	G/8/8 (†U÷ †Kvb)	wUwf1 (gvbwbqvgK)
1.	100 mejR ï‡Ui IRb- Fresh weight of (g) 100 shoot- (2L+B)	92.25	77.5
2.	ïU WvB g¨vUvi- Shoot dry matter (%)	21.80	17.10
3.	ï‡Ui ˆ``N¨- Shoot length (cm)- (2L+B)	9.50	6.35
4.	cwiYZ cvZvi †¶Îdj-Mature leaf area (cm^2)	63	36.50
5.	cÎdj‡Ki ˆ``N¨- Leaf lamina length (cm)	14.25	11.69
6.	cÎdj‡Ki c¯- Leaf lamina breadth (cm)	6.5	5.50
7.	cwZ cÎdj‡K e‡jkb msL¨v - No. of bullation/leaf	16.50	12.10
8.	cwZ cÎdj‡K Lv‡Ri msL¨v - No. of serration/leaf	88.35	81.00
9.	†dg di‡gkb c«bs G cvß QvUvBKZ. Ww‡ji msL¨v- No. of pruning sticks/bush at FFP (Av. of 10 bush)	14.50	15.10
10.	†dg di‡gkb c«bs G cvß QvUvBKZ.Ww‡ji IRb- Wt(kg) of pruning litter/bush at FFP (Av. of 10 bush)	1.25	1.10
11.	cwiKs c‡q‡›Ui NbZ- Number of Plucking point /bush/year	470	395
12.	wcDwemm¨vÝ - Pubescence (4 ×10x)	1565	1580

bvmvwi‡Z †KvbwUi ˆewkó¨

bvmvwi‡Z †KvbwUi ‡kKo MRv‡bvi ¶gZv DËg| ZvQvov bvmvwi‡Z Pvivi e„× I Ww‡jcvjvi we¯vi †ek m‡šÍvlRbK|

mviwY 2. weU20 I wUwf1 Gi Zzjbvgj¨K ‡kKo MRv‡bvi ¶gZv

†Kv‡bi mvs‡KwZK bvg	bvmvwi‡Z ‡kKo MRv‡bvi ¶gZv
G/8/8 (†U÷ †Kvb)	90-95%
wUwf1 (gvbwbqvgK)	75-80%

‡kKo MRv‡bv= Lye fvj= >90%, fvj= >75% - <90%, ga¨g= <75%

Drcv`wbK ^ewkó¨

†Kvb wewU20 Ges gvbwbqvgK wUwf1 Gi Drcv`wbK ^ewkó¨ 3bs I 4bs mviwY‡Z c`Ë nj| civ¶Y c‡U AcwiYZ Ae¯vq (1g n‡Z 5g ermi; mviwY -3), †Kvbwui ewlK Mo Drcv`b wQj †n±i cwZ 1509 †KwR (1g erm‡ii Drcv`b we‡qvRb K‡i), Ges 1257 †KwR (1g erm‡ii Drcv`b ms‡hvRb K‡i)| Zzjbvgj‡Kfv‡e GKB mg‡q, gvbwbqvgK wUwf1 †Kvbwui ewlK Mo Drcv`b wQj †n±i cwZ 1625 †KwR (1g erm‡ii Drcv`b we‡qvRb K‡i), Ges 1341 †KwR (1g erm‡ii Drcv`b ms‡hvRb K‡i)|

cwiYZ eqmKv‡j †Kvbwui 12 eQ‡ii (6ô - 17Zg) Mo Drcv`b wQj cwZ †n±‡i 3685 †KwR ^Zwi Pv, Acic‡¶ Zzjbvgj‡Kfv‡e GKB mg‡q gvbwbqvg‡Ki †¶‡Î Zv wQj 3281 †KwR ^Zwi Pv| †ivcb cieZx 12Zg erm‡i †Kvbwui †n±i cwZ Drcv`b wQj 4,589 †KwR ^Zwi Pv| hv wQj wewU20 †Kvbwui civ¶Y PjvKvjxb †Kvb GKK erm‡i ‡iKWKZ.m‡ev"P Drcv`b| wUwf1 gvbwbqvg‡Ki †iKWKZ.m‡ev"P Drcv`b wQj †n±i cwZ 4274 †KwR ^Zwi Pv H GKB erm‡i| wewU20 Gi Mo Drcv`b AcwiYZ eqmKv‡j gvbwbqvg‡Ki †P‡q hw` I Kg wQj ciewZ‡Z cwiYZ Ae¯vq 12 eQ‡ii Mo Drcv`b gvbwbqvg‡Ki †P‡q 12% †ekx wQj|

mviwY 3. wewU20 I wUwf1 Gi Zzjbvgj‡K Drcv`b (^Zwi Pv †KwR/‡n±i) AcwiYZ Ae¯vq (1g-5g ermi)

†Kv‡bi ms‡KwZK bvg	AcwiYZ (1g - 5g ermi)					Mo
	1g wW-‡m›Uwis /†ewKs	2q cwbsKZ.	*3q w¯‹d cwbs	4_ GdGdwc cwbs	5g w¯‹d cwbs	
G/8/8 (†U÷ †Kvb)	248	692	1036	1580	2727	1257/1509**
wUwf1 (gvbwbqvgK)	225	636	1168	1701	2976	1341/1625**

*Livi ermi, **c_g erm‡ii djb ms‡hvRb K‡i/we‡qvRb K‡i|

mviwY 4. wewU20 I wUwf1 Gi Zzjbvgj‡K Drcv`b (^Zwi Pv †KwR/‡n±i) cwiYZ Ae¯vq (6ô-17Zg ermi)

cwiYZ (6ô-17Zg ermi)												
†Kvb	6ô Gj wc	7g wW Gm	8g Gg Gm	9g Gj Gm	10g Gj wc	11 Zg wW Gm	12 Zg Gg Gm	13 Zg Gj Gm	14 Zg Gj wc	15 Zg wW Gm	16 Zg Gg Gm	17 Zg Gj Gm
G/8/8	2531	3499	4253	4243	2102	3382	4589	4423	3498	3647	3755	4301
wUwf1	2404	2893	3389	3852	1739	2828	4274	3988	3191	3365	3465	3979

mviwY 5. weU20 I UwfI Gi cwiYZ Ae¯vq (6ô-17Zg ermi) 3 wU cwbs P‡µi Mo Zzjbvgj¤K ˆZwi Pv Drcv`b (†KwR/‡n.)

†Kv‡bi mvs‡KwZK bvg	12 eQ‡i 3 wU cwbsP‡µi c„_K c„_K cwbs Acv‡ik‡bi Mo Drcv`b				Mo	¸YMZgvb
	jvBU cwbs (Gjwc)	wWc w¯‹d (wWGm‡K)	wgwWqvg w¯‹d (GgGm‡K)	jvBU w¯‹d (GjGm‡K)		
G/8/8 (†U÷ †Kvb)	2710	3509	4199	4322	3685	DËg
UwfI (gvbwbqvgK)	2445	3029	3709	3940	3281	AwZ DËg

¸YMZgvb

weU20 Gi ¸YMZgvb LyeB m‡šÍvlRbK| Gi QvKwbcvZvi eY LyeB D¾j| wjKvi D¾j i‡Oi, mRxe I Mvp| Gi migqZvI fvj| mweKgvb wePv‡i weU20 Gi ¸YMZgvb ÔDËgÕ (ÔAbove averageÕ) gvb wn‡m‡e MY¨| †ckv`vi Pv Av¯v`KMYI (Professional Tea Tasters') Abyjc gZ cKvk K‡i‡Qb|

†Kv‡bi †kwY

Drcv`b I ¸YMZgvb gj¨vq‡b weU20 ‡KvbwU‡K GKwU ÔAv`k †KvbÕ wn‡m‡e MY¨ Kiv hvq| †Kv‡bi DËg Drcv`b Ges DËg ¸YMZgvb‡K (Above average yield & quality) A_vr, †n±i cwZ Mo Drcv`b >3000 - 4000 †KwR ˆZwi Pv Ges 32 n‡Z 34 Gi g‡a¨ (50 gv‡bi g‡a¨) Av¯v`bx gvb gj¨vqb‡K ÔAv`k †KvbÕ wn‡m‡e MY¨ Kiv nq|

Liv mnbkxjZv

‡KvbwU h‡_ó ewjô Ges Kómnòz¦ cix¶YKv‡j M‡elYvjä cvß Z_¨ we‡kl‡Yi wfwË‡Z †`Lv †M‡Q †KvbwU Liv mwnòz (Drought tolerant)

mviwY 6. Livq (drought stress) weU20 I UwfI Gi Zzjbvgj¤K kvixiePxq Ae¯v

µ. bs	ˆewkó¨	G/8/8 (†U÷ †Kvb)	UwfI (gvbwbqvgK)
1.	3q eQ‡i ‡kK‡oi Mo MfxiZv (†m.wg)	35	28.75
2.	i¶U-ïU Abyqvw`Z	0.32	0.24
3.	‡cwjb Kb‡U›U -Proline content (µmol/g fr. wt)	0.65	0.55

4.	wjd IqvUvi c‡UbwkqvjvB -Leaf water potential (LWP*-bar)	9.10	10.30
5.	‡gvU †Kv‡iwdj Gi cwigvY-Total chlorophyll (mg g^{-1})	1.96	1.95
6.	†Kv‡iwdj ÷¨vwewjwU Bb‡W· (CSI%)	94	88.00
7.	mv‡jvKms‡kIY Gi cwigvY-Photosynthesis (µmol m^{-2} s^{-1})	9.50	8.95
8.	c‡¯`b Gi cwigvY-Transpiration (m.mol m^{-2} s^{-1})	1.25	2.15
9.	cwb e¨envi ¶gZv-Water use efficiency (µmol/m mol)	5.33	4.85
10.	wi‡jwUf wjd IqvUvi Kb‡U›U (RWC%)	62.0	69.00

* wbggvb D"PZi Liv mwnòZv wb‡`k K‡i

†cvKvgvKo, †ivMevjvB cwZ‡iva ¶gZv

evQvB I `xN‡gqv`x gvV cix¶YKv‡j †KvbwUi wewfb †cvKvgvKo I †ivMevjvB cwZ‡iva ¶gZv m‡švlRbK e‡j g‡b n‡q‡Q|

Dc‡hvMx c¯ZcYvjx

‡KvbwU wmwUwm (Crush-Tear-Curl) c¯ZcYvjx‡Z me‡P‡q Dc‡hvMx| Z‡e A‡_vW· c×wZ‡ZI c¯Z Kiv hv‡e|

mviwY 7. wewU20 I wUwf1 Gi Dc‡hvMx c¯ZcYvjxi Zzjbv

†Kvb	1g AMwaKvi (1st preference)	2q AMwaKvi (2nd preference)
wewU20	wmwUwm	A‡_vW·
wUwf1	A‡_vW·	wmwUwm

Dc‡hvMx Avevw`` Gjvkv

‡h‡nZz‡KvbwU m‡švlRbK Liv cwZ‡iva ¶gZv m¤úb ZvB Pv Avev` Dc‡hvMx me Gjvkvq GwU Avev`‡hvM¨| †KvbwUi Avev‡`i Rb¨ wUjvi me Xvj Ges mgZj Gjvkv Dc‡hvMx n‡e|

wegy³ Ges weZiY

evsjv‡`k Pv M‡elYv Bbw÷wUD‡Ui M‡elYv Dc-KwgwUi m`m¨e„›` MZ 03-11-2015 wL. Bbw÷wUD‡U Abyôz 71Zg mfvq G/8/8 ms‡KZhy³ †KvbwUi gvV chv‡qi Drcv`b, ¸YMZgvb, bvmwi‡Z ˆewkó¨ Ges Ab¨vb¨ w`K chv‡jvPbv K‡i Pv wk‡íi Rb¨ wegy³i wm×vš c`vb I Abyôgv`b K‡ib| †m cwi‡cw¶‡Z G/8/8 ms‡KZhy³ †KvbwU GLb wewU20 bv‡g mvgwqK Aegy³ †NvlYv Kiv hv‡"Q| ‡kKohy³ cwZwU Pvivi gv‡¨ 20.00 UvKv avh Kiv n‡q‡Q| AwZ kxNB G †KvbwUi Pviv Avbyôvwb bK weZiY Kiv n‡e| wbDwKqvm †Kvb cU mPbvK‡í cv_wgK fv‡e cwZwU evMvb‡K m‡ev"P `kwU K‡i Pvi mieivn Kiv n‡e| Pvi msMnKv‡j gv‡¨ bM‡` ev cwiPvjK, wewUAviAvB eive‡i ‡PK/WvdU gva¨‡g cwi‡kva Kiv hv‡e|

(W. gvBbDwÏb Awn‡g`)
cwiPvjK

(†gvt BmgvBj †nv‡mb)
cavb ˆeÁwbK KgKZv
Dw™`weÁvb wefvM

Bangladesh Tea Research Institute

Srimangal-3210, Moulvibazar

Circular No. 140 Date. 23 September 2016

RELEASE OF CLONE BT20

Introduction

A large portion of Bangladesh tea area is covered with seedling plants which are over 60 years old and are of unimproved jats of poor productivity. As a result yield of tea is quite low and poor quality. Besides this due to adverse climatic conditions decreases yield, causes higher cost of production, has led to marginal economic return to the industry. All these factors increased the need to replant and extend new tea areas with improved planting materials of higher yield and quality potentials as well as better tolerant to drought, pests and diseases.

Clonal selection process is fairly similar to the all tea producing countries. Under the clonal selection and hybridization programme of this institute, BTRI so far, released 18 high yielding and quality clones in the BT- series to the industry. Most of them have got considerable popularity in our tea industry. To augment the process, the institute now announces the release of another improved standard clone in the name BT20 in its released series of vegetative clones. The accession number of this clone during selection and trial period was A/8/8.

Source and selection of BT20

The clone BT20 was originally selected from Section 8 of Amo Tea Estate of Duncan Brothers (Bangladesh) Limited. The tea estate is situated at drought prone area of Luskerpore Valley. Clonal selection work was initiated during 1993 under the "selection programme" of Botany division. The particular bush A/8/8 was selected on 9th May, 1994.

After rooting trial in the nursery the selected bush, namely A/8/8 along with three other test clones were put to long term yield and quality trial during 1996 at BTRI Farm. The experiment was laid out in a proper statistical designed plot. Tocklai released clone TV1 was used as a standard control for yield and quality comparison. The test clone coded as A/8/8 appeared quite potential in respect of yield, quality, nursery rooting, tolerant to drought and other field performances during its long term selection and field trial periods.

General characteristics of BT20

Morphologically, the plant falls under light-leaved Assam agro-type. The clone has heavy girth with quite satisfactory spread. The plant has medium bush with orthotropic growth habit. Leaves are quite

dark green, medium to large in size and smooth with erect leaf pose. Leaf apex is pointed with uniformly serrated margin. The plucking shoots are soft, medium sized, dense and evenly distributed on the plucking table.

Table-1. Comparative study of morphological characteristics of BT20 and TV1

Serial No.	Characteristics	A/8/8(Test clone)	TV1(control)
1	100 shoot weight wt(g)- (2L+B)	92.25	77.5
2	Shoot dry matter (%)	21.80	17.10
3	Shoot length (cm)- (2L+B)	9.50	6.35
4	Mature leaf area (cm^2)	63	36.50
5	Leaf lamina length (cm)	14.25	11.69
6	Leaf lamina breadth (cm)	6.5	4.50
7	No. of bullation/leaf	16.50	12.10
8	No. of serration/leaf	88.35	81
9	No. of pruning sticks/bush at FFP (Av. of 10 bush)	14.50	15.10
10	Wt(kg) of pruning litter/bush at FFP (Av. of 10 bush)	1.25	1.10
11	Number of Plucking point /bush/year	470	395
12.	Number of Pubescence (4 ×10x)	1565	1580

Nursery performance

The clone BT20 strikes very well in the nursery. The clone exhibits uniform and vigorous growth in the nursery.

Table - 2. Nursery performance of BT20 and TV1

Accession number of the clone	Rooting ability of clone
A/8/8 (Test Clone)	90-95%
TV1 (Control)	75-80%

Rooting ability: Very good= >90%, Good= >75%-<90%, Medium=<75%.

Yield performance

The comparative yield performance of the clone BT20 and control TV1 is shown in Table-3 and Table-4. In the experimental plot average yield at immature stage (1^{st} -5^{th} year) was recorded to be 1509 kg (excluding 1^{st} year yield) compared to 1625 kg for the control TV1. Whereas, the average yield of BT20 was 1257 kg (including the 1^{st} year yield) made tea per hectare compared to 1341 kg for the control TV1.

At mature stage, twelve years' average (6^{th} – 17^{th} year; Table-4) yield of the clone was 3685 kg /ha compared to 3281 kg for the control. In the 12^{th} year after planting the yield of the clone BT20

was recorded to be 4589 kg made tea per hectare. This was the highest yield so far for the clone BT20 in the trial field. The highest yield of the test clone TV1 was recorded to be 4274 kg made tea per hectare at the 12th year after planting. Though the average yield of BT20 was lower than that of control at immature stage, but 12% higher yield was observed of an average of 12 years' yield at the maturity.

Table-3. Comparative yield of BT20 and control TV1 (made tea kg/ha) at immature stage (1st–5th year)

Accession number of the clone	Immature(1st -5th year)					Average
	1st De-centering	2nd Pruned	3rd * Skiff	4th FFP Pruning	5th Skiff	
A/8/8 (Test Clone)	248	692	1036	1580	2727	1257/1509**
TV1 (Control)	225	636	1168	1701	2976	1341/1625**

* Drought year, ** Including/Excluding of 1st year yield.

Table-4. Comparative yield of BT20 and control TV1 (Made tea kg/ha) at mature stage (6th – 17th year)

Clone	Mature (6th – 17th year)											
	6th LP	7th DSK	8th MSK	9th LSK	10th LP	11th DSK	12th MSK	9th LSK	10th LP	11th DSK	12th MSK	9th LSK
BT20	2531	3499	4253	4243	2102	3382	4589	4423	3498	3647	3755	4301
TV1	2404	2893	3389	3852	1739	2828	4274	3988	3191	3365	3465	3979

Table-5. Comparative yield of 3 pruning cycle of BT20 and control TV1 (made tea kg/ha) at mature stage (6th – 17th year)

Accession number of the clone	Yield of 3 pruning cycle at 12 years				Average	Quality
	LP	DSK	MSK	LSK		
A/8/8 (Test clone)	2710	3509	4199	4322	3685	AA
TV1 (Control)	2445	3029	3709	3940	3281	E

Quality performance

BT20 possesses a satisfactory standard of liquor quality. It gives bright infusion. It also gives coloury liquor with useful strength and briskness. It's creaming down quality is also good. The quality of BT20 can be categorized as 'Above average' (having 32 to less than 34 quality score out of 50 is considered as above average quality). Professional tea tasters' comments are also in agreement with the above conclusion.

Clonal category

On the basis of yield and quality performances the clone BT20 can be categorized as a Standard clone. The clone having above average yield and quality i.e. >3000-4000 kg made tea per hectare and 32 to less than 34 quality score out of 50 is considered as standard clone.

Tolerance of drought

The clone is quite strong and hardy. It has been observed to be highly tolerant to drought.

Table-6. Physiological condition at drought stress of BT20 and TV1

Serial No.	Characteristics	A/8/8(Test clone)	TV1(control)
1.	Avrg. depth of root at 3rd year (cm)	35	28.75
2.	Root Shoot Ratio	0.32	0.24
3.	Proline Content (µmol/g fr. wt)	0.65	0.55
4.	Leaf Water Potential (LWP*-bar)	9.10	10.30
5.	Total Chlorophyll (mg g^{-1})	1.96	1.95
6.	Chlorophyll Stability Index (CSI%)	94	88.00
7.	Photosynthesis (µmol m^{-2} s^{-1})	9.50	8.95
8.	Transpiration (m.mol m^{-2} s^{-1})	1.25	2.15
9.	Water Use Efficiency (µmol/m mol)	5.33	4.85
10.	Relative Leaf Water Content (RWC %)	62.0	69.00

*Lower value indicates higher degree of drought tolerance.

Tolerance of pests and diseases

It has been observed to be fairly resistant to different pests and diseases during selection and trial period.

Manufacturing preference

The clone will be best suited to CTC *(*Crush-Tear-Curl*)* manufacturing process.
Table-7. Comparative quality study of BT20 and TV1

Accession number of the clone	1st preference	2nd preference
A/8/8 (Test clone)	CTC	Orthodox
TV1 (Control)	Orthodox	CTC·

Planting preference

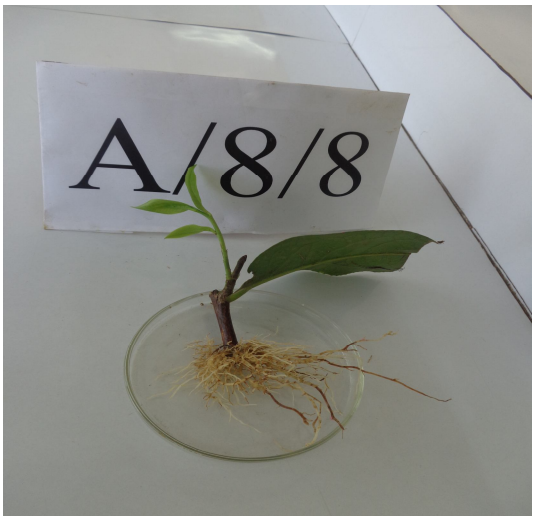
It will be suitable for planting in all tea zones at all faces of tillah slopes as well as in the flat areas.

Release and distribution

The members of the BTRI Research sub-committee in its 71th meeting held on 3rd November, 2015 critically reviewed yield, quality, nursery performances and other aspects of the clone coded as A/8/8 and approved its release for the industry. Therefore, the clone coded as A/8/8 is now hereby released as BT20. The price of each rooted plant has been fixed at Tk. 20.00. The distribution will start very soon and initially each estate will be supplied with a maximum of 50(fifty) rooted plants. Initially each estate will be supplied with a maximum of ten rooted sapling to initiate their nucleus clone plot. Interested estates are therefore, requested to place their demand as soon as possible. Payment will be accepted in cash or by check/draft in favour of the Director BTRI at the time of delivery the plants.

(Dr. Mainuddin Ahmed)
Director

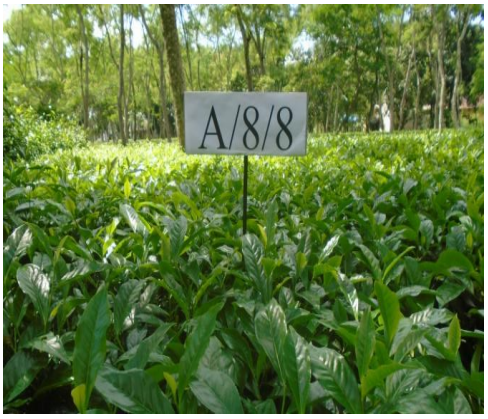
(Md. Ismail Hossain)
Principal Scientific Officer
Botany Division



wewU20 (G/8/8) Gi Pvi gvm eq‡mi †kKohy³ Pviv

wewU20 (G/8/8) Gi 8 gvm eq‡mi †kKohy³ Pviv

bvmwi‡Z †m‡KÛvix †e‡W wewU20 (G/8/8) Gi Pviv



wewU20 (G/8/8) Gi cvZv PqbZj