

Supplementary Table S1 Location detail for the sampled bamboo species and NCBI GenBank accession numbers

Sl. No.	Name of the species	Sample Code	Location	Latitude (N)	Longitude (E)	<i>rbcL</i>	<i>matK</i>	<i>psbK-I</i>	<i>rps16-trnQ</i>
Bambuseae (Tropical and sub-tropical woody bamboos)									
1.	<i>Dendrocalamus strictus</i>	DS1	FRC-BR, Aizawl, MZ	23°43'	92°43'	MT113216	MT113248	MT271323	MT113284
		DS2	Bambusetum, SFRI, Itanagar, AP	27°00'	93°43'	MT113217	MT113249	MT271324	MT113285
		DS3	Bambusetum, IWST, Bangalore, KN	13°00'	77°34'	MT113218	MT113250	MT271325	MT113286
2.	<i>D. hamiltonii</i>	DH1	Bamboosetum, FRI Source- NE India	30°20'	77°59'	MT113207	MT113237	MT271310	MT113274
		DH2	Sairung, Aizawl, MZ	23°47'	92°40'	MT113208	MT113238	MT271311	MT113275
		DH3	Kimin, AP	27°20'	93°50'	MT113209	MT113239	MT271312	-
3.	<i>D. giganteus</i>	DG1	FRC-BR, Aizawl, MZ	23°43'	92°43'	MT113204	MT113234	MT271307	MT113276
		DG2	Mamit, MZ	23°54'	92°29'	MT113205	MT113235	MT271308	MT113277
		DG3	Bambusetum, SFRI, Itanagar, AP	27°00'	93°43'	MT113206	MT113236	MT271309	MT113278
4.	<i>D. longispathus</i>	DL1	FRC-BR, Aizawl, MZ	23°43'	92°43'	MT113211	MT113242	MT271315	MT113279
		DL2	Dampa Tiger Reserve, MZ	23°34'	92°24'	MT113212	MT113243	MT271316	MT113280
		DL3	Near Dampui, Maimit, MZ	23°48'	92°29'	MT113213	MT113244	MT271317	MT113281
5.	<i>D. asper</i>	DA1	FRC-BR, Aizawl, MZ	23°43'	92°43'	MT113198	MT113230	MT271301	MT113268
		DA2	SFRI, Itanagar, AP			MT113199	-	MT271302	MT113269
		DA3	PlantissAgrotech Private Limited, UK	29°23'	79°30'	MT113200	MT113231	MT271303	MT113270
6.	<i>D. somdevae</i>	DSO1	Devalthal village chaopata, UK	29°41'	80°13'	MT113222	MT113251	MT271329	MT113295
		DSO2	Bamboosetum, FRI Source- NW India	30°20'	77°59'	MT113223	MT113252	MT271330	MT113296
		DSO3	Tarag, Hamirpur, HP	31°32'	76°37'	MT113224	MT113253	MT271331	MT113297
7.	<i>D. sikkimensis</i>	DSK1	FRC-BR, Aizawl, MZ	23°43'	92°43'	MT113219	-	MT271326	MT113292
		DSK2	Bambusetum, SFRI, Itanagar, AP	27°00'	93°43'	MT113220	-	MT271327	MT113293
		DSK3	RFRI Jorhat, AS	26°46'	95°17'	MT113221	-	MT271328	MT113294
8.	<i>D. latiflorus</i>	DLF1	Phakmung, Awang leikhai, Imphal, MN	24°52'	94°00'	MT113214	-	MT271318	MT113287
		DLF2	Siphirzoramthanga garden, MZ	23°51'	92°44'	MT113215	MT113255	MT271319	MT113288
		DLF3	FRC-BR, Aizawl, MZ	23°43'	92°43'	-	-	-	-
9.	<i>D. calostachyus</i>	DC1	Bambusetum, SFRI, Itanagar, AP	27°00'	93°43'	MT113201	-	MT271304	MT113271
		DC2	Bamboosetum, FRI	30°20'	77°59'	MT113202	MT113232	MT271305	MT113272

			Source- NE India						
		DC3	Bamboosetum, FRI Source- NE India	30°20'	77°59'	MT113203	MT113233	MT271306	MT113273
10.	<i>D. hookeri</i>	DHR1	Kanglashipaiawangleikai, Imphal, MN	24°50'	93°59'	MT113210	MT113240	MT271313	MT113282
		DHR2	Bambusetum, SFRI, Itanagar, AP	27°00'	93°43'	-	MT113241	MT271314	MT113283
11.	<i>D. membranaceus</i>	DMB1	Bamboosetum, FRI	30°20'	77°59'	MT113225	MT113245	MT271320	MT113289
		DMB2	Source- Myanmar, Northeast India			MT113226	MT113246	MT271321	MT113290
		DMB3	Forest Department campus, Ramnagar, UK	29°23'	79°07'	MT113227	MT113247	MT271322	MT113291
12.	<i>D. brandisii</i>	DB1	Bambusetum, SFRI, Itanagar, AP	27°00'	93°43'	MT113228	MT113256	MT271332	MT113298
13.	<i>D. manipureanus</i>	DM1	Kanglashipaiawangleikai, Imphal, MN	24°50'	93°59'	MT113229	MT113254	MT271333	MT113299
14.	<i>Bambusa pallida</i>	BP	Bamboosetum, FRI	30°20'	77°59'	MT294679	MT271294	MT271346	MT113300
15.	<i>Bambusa vulgaris</i>	BV	Bamboosetum, FRI	30°20'	77°59'	MT294680	MT271292	MT271347	MT113301
16.	<i>Bambusa multiplex</i>	BM	Bamboosetum, FRI	30°20'	77°59'	MT294681	MT271296	MT271348	MT113302
17.	<i>Bambusa nutans</i>	BN	Bamboosetum, FRI	30°20'	77°59'	MT294685	MT271295	MT271349	MT113303
18.	<i>Bambusa tulda</i>	BT	Bamboosetum, FRI	30°20'	77°59'	MT294682	-	MT271350	MT113304
19.	<i>Bambusa polymorpha</i>	BPM	Bamboosetum, FRI	30°20'	77°59'	MT294683	MT271293	MT271351	MT113305
20.	<i>Bambusa balcooa</i>	BBL	Bamboosetum, FRI	30°20'	77°59'	-	MT271291	MT271353	MT113306
	<i>Bambusa burmanica</i>	BB	Bamboosetum, FRI	30°20'	77°59'	MT294684	MT271290	MT271352	-
21.	<i>Gigantochloa manggong</i>	GM	Bamboosetum, FRI	30°20'	77°59'	MT294686	-	MT271355	MT113307
22.	<i>Cephalostachyum pergracile</i>	CP	Bamboosetum, FRI	30°20'	77°59'		MT271297	MT271354	MT113308
23.	<i>Guadua angustifolia</i>	GA	Bamboosetum, FRI	30°20'	77°59'	MT294687	MT271298	MT271356	MT113309
24.	<i>Gigantochloa atroviolacea</i>	GAV	Bamboosetum, FRI	30°20'	77°59'	MT294688	MT271299	MT271357	MT113310
25.	<i>Melocanna baccifera</i>	MB	Bamboosetum, FRI	30°20'	77°59'	MT294689	MT271300	MT271358	MT113311
26.	<i>Thyrsostachys oliveri</i>	TO	Bamboosetum, FRI	30°20'	77°59'	MT294690	-	-	MT113312
<i>Arundinarieae (Temperate woody bamboos)</i>									
27.	<i>Drepanostachyum falcatum</i>	DF1	Munsiyari, UK	30°06'	80°14'	MT294671	MT271250	MT271334	MT113257
		DF2	Kapkot, UK	30°00'	80°01'	MT294672	MT271251	MT271335	MT113258
		DF3	Binsar wildlife sanctuary, UK	29°41'	79°49'	MT294673	MT271252	MT271336	MT113259
		DF4	Gwaldam, UK	30°00'	79°35'	-	MT271253	-	-
		DF5	Chakrata, UK	30°57'	77°45'	-	MT271254	-	-

		DF6	Yamnotri, UK	30°52''	78°18'	-	MT271255	-	-
		DF7	Mussourie, UK	30°28'	78°03'	-	MT271256	-	-
		DF8	Bhatwari, UK	30°56'	78°41'	-	MT271257	-	-
		DF9	Budakedar, UK	30°38'	78°39'	-	MT271258	-	-
		DF10	Nainital, UK	29°22'	79°26'	-	MT271259	-	-
28.	<i>Yushania anceps</i>	YA1	Auli, Joshimath, UK	30°32'	79°33'	-	MT271260	MT271340	MT113262
		YA2	Auli, Joshimath, UK	30°32'	79°33'	MT294678	MT271261	MT271341	MT113263
		YA3	Munsiyari, UK	30°03'	80°12'	-	MT271262	MT271342	MT113264
		YA4	Munsiyari, UK	30°02'	80°11'	-	MT271263	-	-
		YA5	Ghens, Dewal, UK	30°07'	79°41'	-	MT271264	-	-
		YA6	Ghens, Dewal, UK	30°07'	79°41'	-	MT271265	-	-
		YA7	Narayan Ashram, Dharchula, UK	29°58'	80°39'	-	MT271266	-	-
		YA8	Narayan Ashram, Dharchula, UK	29°58'	80°39'	-	MT271267	-	-
		YA9	Chopta, UK	30°28'	79°13'	-	MT271268	-	-
		YA10	Chopta, UK	30°27'	79°14'	-	MT271269	-	-
29.	<i>Himalayacalamus falconeri</i>	HF1	Munsiyari, UK	30°04'	80°13'	-	MT271270	MT271337	MT113265
		HF2	Ghens, dewal, UK	30°7'1	79°43'	-	MT271271	MT271338	MT113266
		HF3	Ranachatti, UK	30°55'	78°22'	MT294677	MT271272	MT271339	MT113267
		HF4	Budakedar, UK	30°39'	78°39'	-	MT271273	-	-
		HF5	Chopta, UK	30°27'	79°15'	-	MT271274	-	-
		HF6	Pindari, UK	30°10'	79°55'	-	MT271275	-	-
		HF7	Chopta, UK	30°27'	79°13'	-	MT271276	-	-
		HF8	Chopta, UK	30°27'	79°15'	-	MT271277	-	-
		HF9	Triyuginarayan, UK	30°27'	79°13'	-	MT271278	-	-
		HF10	Darma valley, UK	30°05'	80°37'	-	MT271279	-	-
30.	<i>Thamnocalamus spathiflorus</i>	TS1	Puraula, UK	31°03'	77°56'	MT294674	MT271280	MT271343	MT113260
		TS2	Yamnotri, UK	30°58'	78°26'	MT294675	MT271281	MT271344	MT113261
		TS3	Budakedar, Tehri	30°41'	78°40'	MT294676	MT271282	MT271345	-
		TS4	Narayan Ashram, Dharchula, UK	29°59'	80°38'	-	MT271283	-	-
		TS5	Karandambugyal, Dharchula, UK	30°01'	80°38'	-	MT271284	-	-
		TS6	Valley of flowers, UK	30°41'	79°35'	-	MT271285	-	-

		TS7	Pindari, UK	30°12'	79°55'	-	MT271286	-	-
		TS8	Chopta, UK	30°28'	79°13'	-	MT271287	-	-
		TS9	Har-ki-doon, UK	31°07'	78°21'	-	MT271288	-	-
		TS10	Darma valley, UK	30°10'	80°34'	-	MT271289	-	-
AP: Arunachal Pradesh, MZ: Mizoram, MN: Manipur, HP: Himachal Pradesh, UK: Uttarakhand, KN: Karnataka, FRI: Forest Research Institute, RFRI: Rain Forest Research Institute, SFRI: State Forest Research Institute, IWST: Institute of Wood Science and Technology, FRC-BR: Forest Research Centre for Bamboo and Rattan									

Supplementary Table S2 The detail of chloroplast barcode regions selected for evaluating in Indian bamboo species

Sl. No.	Chloroplast region	Primer name	Primer Sequence (5'-3')	Author(S)
1.	<i>matK</i>	390F	CGATCTATTCATTCAATATTTTC	Cuenoud et al. 2002
		1326R	TCTAGCACACGAAAGTCGAAGT	
		MatK XF	TAATTTACGATCAATTCATTC	Ford et al. 2009
		MatK 5R	GTTCTAGCACAAGAAAGTCG	
2.	<i>rbcL</i>	1F	ATGTCACCACAAACAGAAAC	Fay et al. 1997
		724R	TCGCATGTACCTGCAGTAGC	Kress and Erickson 2007
		rbcLa_r	CTTCTGCTACAAATAAGAATCG-ATCTC	
3.	<i>ycf1</i>	ycf1bF	TCTCGACGAAAATCAGATTGT-TGTGAAT	Dong et al. 2015
		ycf1bR	ATACATGTCAAAGTGATGGAAAA	
4.	<i>ndhF</i> (3'end)	972F	GTCTCAATTGGGTTATATGATG	Olmstead and Sweere 1994
		2110R	CCCCCTAYATATTTGATACCTT-CTCC	
5.	<i>rps16-trnQ</i>	5'end 1F	GCACGTTGCTTTTCTACCACA	Triplett and Clark 2010
		929R	TTCTGTCTACTCGGCTTTTCG	
		3'end 538F	CGACTCGAATACCAAAGAGG	
		1574R	ATCCTTCCGTCCCAGATTTT	
6.	<i>trnC-rpoB</i>	trnCF	TGGGGATAAAGGATTTGCAG	Yamane and Kawahara 2005
		rpoBR	ATTGTGGACATTCCCTCRTT	
7.	<i>trnD-T</i>	trnD-F	ACCAATTGAACTACAATCCC	Demesure et al. 1995
		trnT-R	CCCTTTTAACTCAGTGGTA	Triplett and Clark 2010
8.	<i>trnT-L</i>	trnT-L F	CATTACAAATGCGATGCTCT	Taberlet et al. 1991
		trnT-L R	TCTACCGATTTCCGCATATC	
9.	<i>trnL-F</i>	trnL- F	CGAAATCGGTAGACGCTACG	Taberlet et al. 1991
		trnF- R	ATTTGAACTGGTGACACGAG	
10.	<i>trnH-psbA</i>	trnH2	CGCGCATGGTGGATTCACAATCC	Tate and Simpson 2003
		psbA	GTTATGCATGAACGTAATGCTC	Sang et al. 1997
11.	<i>psbK-I</i>	psbK	TTAGCCTTTGTTTGGCAAG	Lahaye et al. 2008
		psbI	AGAGTTTGAGAGTAAGCAT	