

INFORMATION ON BAMBOO RESOURCES FURNISHED BY NORTH-EASTERN STATES OF INDIA
(As on March, 2007)

A. Seed production

Sl. No.	States	Quantity expected/obtained	Programme for utilization		Others	Remarks
			Research	Regeneration status		
1.	Assam					
	Karimganj Forest division	Not yet assessed	No specific target fixed by the SFD	Patharia RF=400 ha Longai RF =200 ha Duhalia RF =200 ha Total 800 ha	Does not have any specific programme	80%of Muli (<i>Melocana baccifera</i>) flowering occurs during Nov/Dec.2006 and seed production is high during 2007. However, flowering in Muli could be seen from 2001in small patches. Remaining areas may flower during 2007/08. Flowering in Kako (<i>Dendrocalamus hamiltonii</i>) was also observed sporadically since 1991 in different localities. Sporadic flowering of Hill Jati (<i>Oxytenanthera parvifolia</i>) is also under flowering since 2003 in the North Cachar Hills District of Assam. Sporadic flowering is also observed in Kali (<i>Oxytenanthera nigoaciliata</i>) since 2005 in some localities of Tripura State.
	Cachar Forest Division	13320 MT Muli (<i>Melocana baccifera</i>)		1000 ha		
	Hailakandi Forest Div	3000 MT Muli (<i>Melocana baccifera</i>)		1000 ha		
N C Hills Forest division	50,000 M.T Muli (<i>Melocana baccifera</i>) 1 Tone Hill Jati (<i>Oxytenanthera parvifolia</i>)		600 ha Assam=3400 ha (artificial)			
2.	Mizoram	No specific information pertaining to seed production and allied matters.				
3.	Manipur	Not yet assessed	No specific target fixed by the SFD	Taken up for artificial regeneration over 12,500 Ha	Does not have any specific programme	
4.	Nagaland	No specific information pertaining to seed production and allied matters.				
5.	Meghalaya	7162 MT	No specific research work carried out by the SFD.			
6.	Tripura	183370 MT	32 MT	9500 MT		

B. Utilization of Bamboo resources

Sl. No.	State	Bamboos		Seeds				Others
		Species	Programme for disposal	Species	Expected quantity	Research	Regeneration status	
1.	Assam							
	Karimganj Forest Division	Muli (<i>Melocana.baccifera</i>) Khang (<i>Bambusa sp</i>) Kaligoda (<i>Oxytenanthera nigraciliata</i>)	To supply Hindustan Paper Corporation Ltd. on lease	<i>M.baccifera</i>	Not assessed	No specific programme taken up	800 ha (Artificial)	
	Cachar Forest Division	<i>M.baccifera</i>		<i>M.baccifera</i>	13320 MT			
	Hailakandi Forest Division	<i>M.baccifera</i>		<i>M.baccifera</i>	3000 MT			
	N C Hillls Forest Division	Muli (<i>M. baccifera</i>) Hill Jati (<i>Oxytenanthera parvifolia</i>)			50,000 M.T 1 Tone(Hill jati)			
2.	Mizoram	<i>D. hamiltonii</i> <i>M.baccifera</i>	By Mahal and Permit system	No specific programme in these aspects.				
3.	Manipur	<i>M.baccifera</i>	By Mahal and Permit system	<i>M.baccifera</i>	Not assessed	No programme taken up so far.	50,000 Kg to be used by the SFD for artificial regeneration.	
4.	Nagaland	<i>Dendrocalamus hamiltonii</i> <i>D.giganteuas</i> <i>M. baccifera</i> <i>Bambusa balcooa</i> <i>B. tulda</i>	-To supply Paper mills -Raw materials for handicrafts -Mats -Fencing materials	Due to a peculiar land holding pattern in Nagaland, most of the bamboo areas belong to individuals and or community. It is not easy to quantify the resource. Moreover, presently Nagaland Bamboo Development Agency (NBDA) is the nodal/focal Bamboo agency in the state since the last two years. This agency is not under the purview of the forest				

		<i>B.pallida</i> <i>Neomicrocalamus prainii</i> <i>Sinoarundinaria griffithiana</i> <i>S.rolloana</i> <i>S.nagalandiana</i> <i>S.elegans</i> <i>Dendrocalamus latiflorus</i>	-Housing -Edibles Shoots/ pickles	department. No specific information could be provided.				
5.	Meghalaya	<i>Chimnobambusa griffithiana</i>	Paper mill and other domestic consumption	<i>Melocanna baccifera</i>	90 MT (West Garo Hills)		Natural regeneration is allowed to take place in the flowering areas.	
		<i>D.strictus</i>		<i>Melocanna baccifera</i>	87.5MT(East Garo hills)			
		<i>Bambuasa tulda</i>						
		<i>B nutans</i>						
		<i>B.pallida</i>		<i>Dendrocalamus hamiltonii</i>	1.2 MT(East Garo Hills)			
		<i>B.aurindinaria</i>						
		<i>Schizostachyum dollua</i>						
		<i>Chimnobambusa griffithiana</i>						
		<i>Dendrocalamus hookeri</i>						
		<i>Sinoaurindinaria spp.</i>						
		<i>Bambusa jaintiana</i>						
		<i>Melocanna bacifera</i>						
6.	Tripura	Tripura	<i>Melocanna baccifera</i>	1.Paper and pulp= 25,000 MT 2.Making of incense stick= 18,000 MT 3.Umbrella handle= 2,000 MT	<i>Melocanna baccifera</i>	33,340 MT	2 MT	

				4.Handicrafts= 1,000 MT 5.Export to Bangladesh= 2,000 MT 6.Construction/ Structural purpose= 93,200 MT 7.Consumption by the Right/Concessi on holders= 80,000 MT				
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C. Bamboo Resources

Sl. No.	States	Species wise area under bamboo (in ha.)	Species expected to flower/ under flowering/already flowered	Species wise area expected to flower/ under flowering/already flowered (in ha.)	Accessible areas (in ha.)	In-accessible areas (in ha.)	Total area (in ha.)	States of cohort mapping
1	Assam							
	Karimganj Forest division	35,500 Muli, Khang Kaligoda (mixed)	<i>Melocanna baccifera</i>	2000 (already flowered)	1300	700	2000	Not maintained.
	Cachar Forest Division	33300 <i>Melocanna baccifera</i>	<i>M. baccifera</i>	33,300 (already flowered)	4,000	29,300	33,300	Not maintained.
	Hailakandi Forest Div	15,000 <i>M.baccifera</i>	<i>M.baccifera</i>	15,000 (already flowered)	10,000	5,000	15,000	Maintained
	N C Hills Forest division	221068 <i>M.baccifera, Oxytenathera parvifolia</i> and other spp.	<i>M.baccifera</i>	99,480 (already flowered)	44,000		221,068	Not maintained
<i>Oxytenathera parvifolia</i>			Approx. 20 (already flowered)	20	0	20		
2	Mizoram	644600 Covering all the bamboo species.	<i>D.hamiltonii</i>	510,000 (already flowered)	120,000	524,600	644,600	Not maintained
			<i>M. baccifera</i>					
			<i>P. polymorphum</i>					
3	Manipur	157000 <i>M. baccifera</i>	<i>M. baccifera</i>	157 000 (already flowered)	38,000	1,19,200	1,57,200	Under preparation
4	Nagaland	75800 Covering all the species.	<i>M. baccifera</i>	7600 Species wise land cant be ascertained due state land tenure system in Nagaland	7600	nil	7600	Not maintained
			<i>Dendrocalamus latiflorus</i>					
			<i>Dendrocalamus giganteus</i>					

5	Meghalaya	8953.6	<i>Melocanna baccifera</i> (Under Flowering)	8058.00 (Flowered 90% of Muli area)	5372.16	3581.44		
		<i>M.baccifera</i>						
		661.3	<i>Dendrocalamus hamiltonii</i> (Already Flowered)					
		<i>Chinnobambusa grifithiana</i>						
		1450.0	<i>B.aurindinaria</i>					
		470.9	<i>Dendrocalamus hamilltonii</i>					
		187.7	<i>Sinoaurindinaria spp.</i>					
		2139.0	<i>Bambusa tulda</i>					
		520.0	<i>Dendrocalamus hookeri</i>					
6.	Tripura	<i>M.baccifera</i> 211700 <i>Bambusa tulda</i> 5750 <i>Dendrocalamus longispathus</i> 4000 <i>Schizostachyum dulloa</i> 1800 <i>Bambusa nutans</i> 1600 <i>Bambusa balcooa</i> 50 <i>Gigantochloa rostrata</i> 75 <i>Bambusa teres</i> 275 <i>Bambusa polymorpha</i> 1200 <i>Bambusa affinis</i> 40 <i>Bambusa spp</i> 310 Total Bamboo area 226800	<i>Melocanna baccifera</i>	166425	46325	120100	166425	Cohort mapping already done

D. Post Flowering Management Strategy

Sl. No.	States	Species	Regeneration				Any plan for mixing with other bamboo/ tree species	
			Natural		Artificial			
			Area (in ha.)	Action plan if any	area (in ha.)	Action plan if any		
1.	Assam							
	Karimganj Forest Division	<i>Melocanna baccifera</i>	Could not be assessed	Not yet formulated	800	Action plan already prepared and submitted	Not yet finalized	
	Cachar Forest Division	<i>Melocanna baccifera</i>						
	Hailakandi Forest Division	<i>Melocanna baccifera</i>						
	N C Hillls Forest Division	<i>Melocanna baccifera</i>			600			
2.	Mizoram	<i>Melocanna baccifera</i>	524600	Yet to be finalized	1700	Yes	Yes	
3.	Manipur	<i>Melocanna baccifera</i>	3500	As per action plan approved by GOI				
		<i>Dendrocalamus strictus, D gigiantus, Bambusa tulda, D. hamiltonii</i>	9000		2100	Action plan approved by GOI	1400	Hectare of mixed plantation with Bamboos.
		<i>D.strictus, D.gigiantus, B.tulda and D. hamiltonii</i>			5400		3600	Hectare of mixed plantation with Bamboo.
4.	Nagaland	<i>Melocanna baccifera</i>	Not yet assessed	Yet to be formulated	820	Not yet finalized	Yet to take up	
		<i>Dendrocalamus latiflorus</i>						
		<i>Dendrocalamus giganteuas</i>						

5.	Meghalaya	<i>Melocanna baccifera</i>	Proposal submitted,yet to finalize	Action plan for East Garo Hills is submitted and 80 ha area allotted	80 (East Garo Hills)	Action plan for East Garo Hills submitted to the PCCF , Meghalaya for approval	Commercially important Tree species taken up with Bamboos
		<i>Dendrocalamus asper</i>					
		<i>Dendrocalamus hamiltonii</i>					
		<i>Bambusa tulda</i>					
		<i>Bambusa bamboos</i>					
		<i>Bambusa Balcooa</i>					
		<i>Melocanna baccifera</i>					
		<i>Dendrocalamus hamiltonii</i>					
<i>Other species</i>							
6	Tripura	<i>Melocanna baccifera</i>	540	1500	9860	28900	15% of the Muli Bamboo area is targeted to be mixed with species like Bambusa balcooa/ polymorpha
		<i>Bambusa affinis</i>	0	0	120	5100	
		<i>Bambusa balcooa/polymorpha</i>	0	0	334		
		<i>Bambusa species</i>	0	0	40		
		<i>Total =</i>	540	1500	10300		

Distribution of bamboo in Northeast India: (Area in sq. Km.)

Sl. No.	States	Area under bamboo (As per FSI 2001, Rai and Chauhan 1998)	Area under Muli bamboo	Area under other bamboo spp.	Area expected to flower/ under flowering/already flowered	Area accessible (Flowered)	Updated through personal contracts of concerned SFD
1.	Arunachal Pradesh	4590	There is no flowering information at present				As per the information provided by the nodal Officer, Bamboo cell of concerned SFD.
2.	Assam	8213	1788	6425	683	150	
3.	Manipur	3692	1592	2099	1592	380	
4.	Meghalaya	3102	89.53	3030.47	89.53	53.78	
5.	Mizoram	9210	5800	646	5100	1200	
6.	Nagaland	758	76	682	76	76	
7.	Tripura	2268	2117	151	1667	749.05	

Compiled at:

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