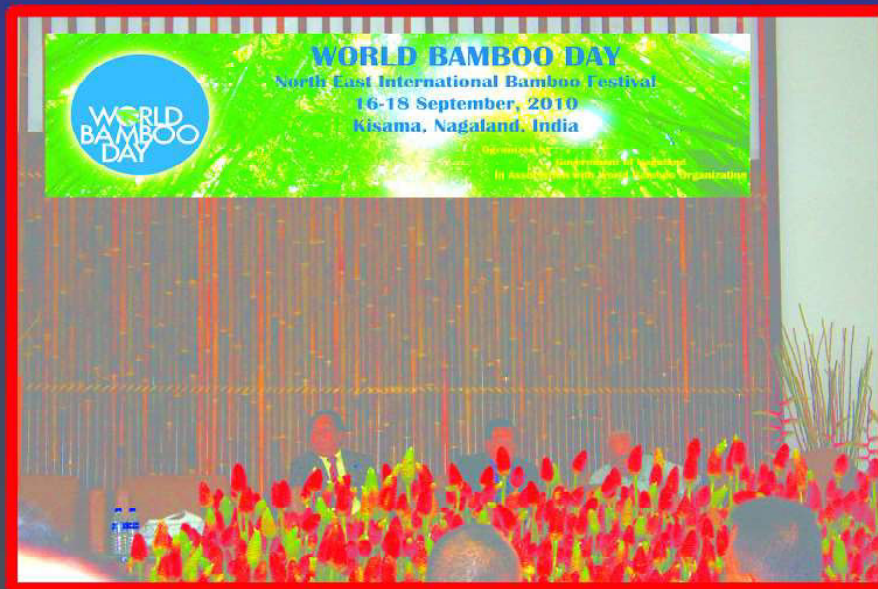


Vol - 1 ISSUE No. 1 July - September 2010



# INDUSTRY MEICHHER



A Quarterly Bulletin of The Department of Industries  
Government of Mizoram, Aizawl

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**EDITORIAL BOARD**

<b>Editor</b>	<b>SI.No.</b>	<b>Contents</b>	<b>Page No.</b>
Shurbir Singh IAS Director of Industries (9436355370)			
<b>Joint Editor</b>			
R. Lalrodingi Joint Director of Industries (9436141324)	01.	Editorial	- ii
	02.	World Bamboo Day 18 <sup>th</sup> September	- 01 - 07
<b>Assistant Editors</b>			
1. Laltlanthanga Project Manager (H&H) Industries Department (9436389058)	03.	National Mission on Bamboo Application	- 08 - 11
2. Lalmunsiamia Project Manager (M&E) Industries Department (9436156448)	04.	Marketing Aspect of Bamboo	- 12 - 13
3. Lalrammawia Deputy Director (Admn) Industries Department (9436191582)	05.	Species of Bamboo	- 14 - 18
<b>Contributing Editors</b>			
1. C. Lalbiakthanga Addl. Director, Industries Department (9436155473)	06.	Bamboo Chipping Cluster	- 19 - 20
2. V. Lalbiaksanga General Manager DIC, Aizawl (9436140432)	07.	Mau - Kan Ram Hausakna Hnar	- 21 - 22
3. H. Thangmawia General Manager DIC, Lunglei (9436152923)	08.	The Mizoram Industrial Area	- 23 - 26
4. Zohmingthanga Manager, ZIDCO (9436140913)	09.	Keimahni	- 27 - 31
5. L. Sanglura Sailo Deputy Manager, MIFCO (9436154198)			
6. Hmingthanzauvi Executive Officer, MKVIB (9436156167)			
7. Peter Lalzawmliana Project Manager, ZOHANDCO (9862598677)			
8. Lalhrilliana IPO, Industries Department (9612166323)			
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R. Lalanzuala, E.O. (9612164681)			
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## EDITORIAL



Khawvel thang chho zelah hian ram tinah hmasawwna hi a zuang sup sup a ni ber a. Kan ramah pawh hian hmasawwna chu hmuh theihin a thang a. Heng hmasawwna zawng zawng hi ngun taka kan chhut chuan thilsiamna lama hmasawwna hi hmahruaitu pawimawh leh bul tanna a lo ni fo mai.

Chuvangin, “Thilsiamna hi hmasawwna thawhmahruaitu a ni e.” kan ti thei awm e. United States of America chu ranvulh leh loneih lama an than harh lai chuan ei leh barah an in todelh mai a, hmasawwna dang hmuh tur a awm lo. Thilsiam lama hma an han sawn tak tak hnu erawh chuan khawvel tluk loh ram changkang leh hmasawwnah an in vawrh chho daih a. Indopui avanga tla chhia, Japan ram chu thilsiam avang liau liau vin khawvel hriat leh ram hmasawwnah an in vawrh chho leh thei bawh. Chutiang bawkin, Taiwan pawh thilsiam lama an changkanna chuan ram ropui leh haus, a awptu China sawrkar lakah pawh ngeng ngalh thei khawpin a siam bawh a. Ram ropui hmasa Great Britain, German, French, Russia leh China-te pawh hi thil dang zawng aain an thilsiam avanga ropui an ni deuh vek mai.

Chutiang a nih avang chuan Mizoram pawh hian hma a sawn tak tak dawn chuan thilsiamna tha tak tak tam tak a neih ngei a ngai a. Thildangah hmasawwnin, thil thar teuh teuh mah ila, thilsiamna tha leh sawitham kan neih si loh chuan hmasawwna hlawk tawk lo, hmasawwna ke bai emaw hmasawwna tluantling lo ang pawhin a sawi theih hial ang.

Zoram hian hma a sawn tak tak dawn chuan thilsiamna lam kan uar a, din belh zel a, rintlak leh sawichhuah ve ngam thilsiamna kan din zung zung hi a tul ta hle mai. State sawrkar chuan ram pawn lam atanga thilsiamna din theihna remchang Joint Venture Policy-te a nei mek a. Heng pawh hi remchanga hmang a, midang emaw pawn lam chakna leh sum neih hmang remchanga thilsiamna din hi kan ram hmasawwnan a va pawimawh em.

**Kan thilsiam chhuah ve chhun Industrial Trade Fair, Exhibition emaw mi hmuha entir ringawt hi a tawk lo va. Hralh chhuah tham leh sum tam tak hailuh theihna tur thilsiamna rintlak leh lian kan din thuai thuai hi a va tul tak em!**

Thilsiam lama hma kan sawn phawt chuan kan aia changkang zawkte pawh kan la lehkhallh

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## WORLD BAMBOO DAY – 18<sup>th</sup> September

*R. Lalrodingi*  
*Joint Director of Industries*

Kum reivak lo aţang khan tih takzet a mau chanchin zirbingtute, mau buaipuitu leh mau ţangkai zawka hman dan tur ngaihtuhtute an lo awm ţan a. Mau awmzia leh nihphung danglam tak avangin chung mite chu midangin an zawm zel a, chutia mau buaipuitute an pun chhoh mek laiin **8<sup>th</sup> World Bamboo Congress** chu Thailand khawpui Bangkok-ah nikum 2009 khan ropui leh hlawhtling taka hman a ni a. He Bamboo Congress, Imperial Queen’s Park Hotel-a hmanah hian, Thai Royal Forest Department chuan **18<sup>th</sup> September** chu **World Bamboo Day** ah puangin he Congress hmangtute chu World Bamboo Day hmasa ber hmangtute an lo ni pah reng bawk tihna a ni.

Nikum, 2009, 18<sup>th</sup> September hma deuh khan Thailand Prime Minister Adviser chuan Mizoram a rawn tlawh a. Vanneihthlak takin Adviser buaipuitute zingah ka tel ve a. Hnam chhantu Pawl te, Zonun Mat Ply te kan tlawh pui a. Hnam Chhantu Pawl thilsiam hrang hrangte a hmuhin kan mikhual pawimawh chu a phur ta hle mai a, World Bamboo Congress hmang tura kan inpuahchah thu ka lo hrih tawh avangin, Hnam Chhantu Pawl thilsiam leh mau hmanga thilsiam thenkhat Thailand-a keng turin min ngen a, an lalnu pual Handicraft Exhibition Hall-ah man chawi lova min display sak a tiam nghe nghe a ni.

Amaherawhchu Sorkar lamin World Bamboo Congress hmangtu leh exhibition item ken kan dilna te min phalsak tak loh avangin kan tel ve ta lo va. Hun remchang dang a inherchhuak tawh lo mai ang tih a hlauhawm hle mai. Keini ho hi lo han tel ve

thei ta ila chu, 1<sup>st</sup> World Bamboo Day Celebration ah kan tel ve ni mai tur a lo ni.

World Bamboo Day hman rawtna chhan zawk hi kan tuipui tur leh kan thu lairil tur chu a ni, hetiangin -

Khawvel pumah Mau chungchang hriat chian lehzual a nih theih nan te, Mau tamna hmun a mite’n Mau hi ngaiah neihin a hlutna hre lova kan hman ţangkai loh em avangin mau thatzia leh ţangkaizia te zirchian a nih theihna atana hmalak chhoh zel nan te, natural resources te humhalh nachang kan hriatna tur leh environment tha kan lo neih theih phah nan te, mau chin kan uar deuh deuh-a industries awmze nei te tan mau tha kan thar chhuah theih nan te leh ram tinin kan mau hman ţangkai thin dan te promote zeln tur leh mipui mimir dinhmun tha zawk siam a nih theih nan ropui thei ang ber leh nasa thei ang

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bera lawm thin turin World Bamboo Day chu 18<sup>th</sup> September ni turin ruat fel a ni ta a ni.

Thailand a World Bamboo Congress hi ram hrang hrang 41 atangin mi 350 velin an chhim a, he Congress hi Nagaland atang chuan team lian tak insiamin an Chief Minister ho in an chhim a, an hlawkpui hle niin a lang. 8<sup>th</sup> World Bamboo Congress chu 18<sup>th</sup> September apianga thunawn ropui - **Do something good for the Earth - Plant a Bamboo, Talk Bamboo, Build with Bamboo, Sing with Bamboo, Wear Bamboo, Walk along the Bamboo and feel good** ti chungin ram 41 palai, kum 2009-a World Bamboo Day celebration Bangkok, Thailand-a hmangtute chu an tin ta a ni.

Tichuan, 2<sup>nd</sup> World Bamboo Day Celebration, Naga Heritage Village, Kisama, Kohima, Nagaland-a Industries Minister zahawm - Pu S. Hiato leh Parliamentary Secretary zahawm - Pu H. Zothangliana te nen kan chhim chungchang hi tuna kan report tur chu a lo ni ta a ni.

16<sup>th</sup> & 17<sup>th</sup> September 2010 chu North East International Bamboo Festival atana hman a ni a. Seminar buatsaih niin **'Bamboo for Livelihood and Community Development'** tih thupaia hmangin mithiam hrang hrang khawvel ramdang mi leh India mite'n thu an sawi a. 17<sup>th</sup> September, 2010 dar 2:00 p.m. ah Investors' Meet buatsaih a ni a, Pu S. Hiato, Hon'ble Industries Minister chu Guest of Honour niin investor te Mizorama lut turin a sawm a. Thusawi tawi

ngaihnaawm leh mi hip tak a sawi avangin kan Minister hi kan chhuang tak zet a, a thusawi zawh hnu kha chuan Mizoram delegate nih kha a nuam ta sawt a, chak leh vung tak takin kan tei hawi zung zung ngam ta a ni.

Bamboo lama ka thawh tirh leh he World Bamboo Day lawm tura kan kal hma zawng kha chuan, **Bamboo – 'the poor man's timber'** an ti ziah thin a, kan Minister thusawi tur sem nana *folder*kan *design*-ah pawh dah leh kan tum laiin ka hmin lo ta riau va, **'Bamboo – The Green Gold'** tih dah zawk ka rawt angin kan dah ta a. Hrechiang vak lova ka thil risk fuh ber tum a ni ang, he programme kan hman chhung hian thusawitu pathum vel duh angin "Bamboo the Poorman's Timber" tih tawh loh tur "Bamboo – The Green Gold" tih zel tur tih chu thutlukna a ni ta nghe nghe a ni.

Nagaland Chief Minister Mr. Neiphiu Rio-in Craft Bazar leh Seminar a hawng a, nithum chhung hian a hman chang apiangin a rawn tlawh a, programme awm chhung chu a uap ni maiin a lang. Mau chungchang a hriat em avangin Nagaland hmasawna North East State dangte aia a lo chak deuh pawh thil nihphung tur reng niin a lang.

Pawi ta em em zawk chu, kan Commissioner & Secretary Pu R.L. Rinawma IRS leh Pu Murray Lalthangliana, CF te thlawhna cancel avangin an rawn thleng thei ta lova, Director Pu Shurbir Singh IAS te he programme a tel tum reng pawh meeting pawimawh dang N. Delhi lama attend a tul avangin a thulh bawk a. Tichuan, Minister,

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Parliamentary Secretary, Pu K.Lalhmingthanga (President, Mizoram Chamber of Industries), Pu Lalhuthanga, (President, Mizoram Chipping Cluster), Pu Pachhunga (Mizoram Chamber of Industries) leh Bamboo Development Agency-a official te bakah Pu Vanlalruata leh Pu R.Lalchhanchhuaha, entrepreneurs te nen kan chhim ta kha a ni a. Delegates 1500 aia tam mah (chu chu a tir a delegates beisei aia tam daih)-in he programme hi kan hmang a, India ram chung amite bakah Japan, France, Korea, Thailand, Norway, US, Italy leh Greece atang tea kal khawm an ni. Craft Bazaarah mit la tak tak thil siam phochhuah a ni a, englai pawhin Naga hnam hrang hrangte anmahni hnam In sak chhungah an hnamzia pholangin en tur an awm reng a. Zan lamah delegates te tan intihhlamna programme an buatsaih ziah a, a huhovin dinner min eitir leh hnuah kan thlenin kan pan darh chauh thin. Nagaland Sorkar hian Dimapur kan thlen atangin min enkawl nghal a, Liaison Officer min pe vek a, tin, Nagaland chhunga transportation, thlenna leh chaw eina reng reng palai zawng zawng te tan Nagaland Sorkar-in a tum vek a ni. Min enkawltute inpekna a sang hle a, buaipui kan ngaih loh thu kan hrilh pawhin min kalsan tha duh lo hle a ni.

Mau atanga *music instrument* siam chauh hmanga band performed thiam tak kan ngaihthlak laite, fashion show ropui tak mau fiber atanga siam thawmhnaw nena an entir kan thlir lai te, Mima Village-a an mihausa-in mikhual zawng zawng lunch min buatsaih sak kan ei laia mau thleng leh mau

no kan hman te, hmeichhe incheina hrang hrang mau atanga siam kan hmuh te khan 'MAU BER HI' a lo nih hi a tih loh theih loh a ni.

NEC Adviser leh Japan lam atanga Scientist pakhat thusawi "Mizoram chuan Mau an ngah a, mahse an hmang tangkai lo hle a, an hal ral teuh teuh hi an sim chuan dinchhuahna tham an nei," tih thu an sawi te chuan ngaihtuah a ti thui a; kan inti changkang ve viau baw si a, a zahthlak duh hle mai. Mau hi kan ngah thu kan sawi fova, chutih laiin state dang Mau nei lote'n mau thatzia an hria a, urhsun takin plantation awmze neiin an beih chhoh mek lai hian mau chungchangah ruahmanna fel tak nei chung kan kal ve loh chuan state dang keini aia ngah tur hi an awm thuai dawn niin a hriat theih.

Kum 1991-a sorkar hna ka zawm atangin Electronics leh IT lamah chauh kum 2007 thleng khan ka thawk char char a, Mizo lehkha thiamna lama sang chho mek dinchhuahna hi IT chauh emaw tiin theih tawp ka chhuah thin a. Ka lo hriatthiam loh Mau chu hrechiang miah lovin bel luih ka nih angin ka buaipui chho ta a, tun thleng pawh hian mau thatzia hi ka la hre tam lo nachungin Mizoram dinhmun siamtha thei tur chu 'MAU' hi a ni tih chauh erawh hi chu ka hrethiam ta hle mai.

Ka article chhiartu te Mau ching a, Mau hmun tha nei tur leh venghim tura tan la turin urhsun takin ka ngen tak meuh che u a ni. Sawi tur tam tak la awm mahse tuna tan chuan duh tawk hrilh mai ila. India Vice President

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Pu Hamid Ansari leh kan Minister zahawm Pu S. Hiato te'na 9<sup>th</sup> World Bamboo Day celebration-a an thusawi hi kan report khar nan ka'n hmang ang e. Nakumah chuan Belgium leh France-in an thleng (co-host) dawn a, Mizoram aṭangin tel ve ngei kan tum ang chu.

**1. India Vice President thusawi chu :**

I am pleased to be in your midst here in the beautiful Naga Heritage Village, Kisama on the occasion of the World Bamboo Day celebration. I congratulate the Government of Nagaland, especially the Chief Minister, and the World Bamboo Organization for taking the initiative to organize this important event. The World Bamboo Day is a day of celebration to increase the global awareness of bamboo and promote its sustainable utilization. It is also appropriate that the theme chosen for this festival is “Bamboo for Community and Livelihood”.

I hope that such efforts of the state and central governments, civil society, and the World Bamboo Organization would highlight the potential of bamboo to a wider audience to help protect natural resources and the environment, to ensure sustainable utilization, to promote new cultivation of bamboo for new industries in India and around the world, and promote traditional and community uses of bamboo.

The North East region of India, though underdeveloped in economic terms, is extremely rich in natural resources. Bamboo is a prominent natural resource of the region.

The North East, with about 8% of the geographical area of the country, accounts for 66 per cent of the bamboo resources of the country spread over an area of about 3.10 million hectares and housing over 89 species of bamboo.

This precious natural gift has been integral to the life and survival of all the ethnic groups of North Eastern India over the centuries. The various uses to which bamboo has been put to, have made it an indispensable resource for rural India and it has been incorporated in their cultural and traditional life. The Nagaland Bamboo Policy of 2004 summarises it well, and I quote: “From the cutting of the umbilical cord to the mats that have wrapped the dead for burial, Bamboo has been integral to the life of the Nagas.”

The raw stock of bamboo in the North East region is conservatively valued at Rs. 5,000 crores. Even with a modest target of two-fold value addition to the stock through suitable methodologies, an annual turnover of approximately Rs. 10,000 crores can be generated in the region. In the context of India's economy, the market size of Bamboo is expected to touch a figure of Rs. 42,000 crores in the next fifteen to twenty years. This enormous potential for wealth creation in rural areas, if exploited properly, can truly benefit the people of the region and change their day-to-day lives for the better.

*Ladies and Gentlemen,*

The importance of Bamboo is enhanced

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in the backdrop of global concerns of ecology and environment and the looming threat of global warming and climate change. Bamboo is emerging as the most viable wood substitute. Unlike steel and plastic, it is eco friendly, being not only biodegradable but also having enormous capacity to sequester carbon. Furthermore, as the fastest growing plant on earth, it is a renewable resource with short gestation. This new perspective of Bamboo is indeed a big change from its earlier reference as the “poor man’s timber”.

We are also witnessing an expansion in the uses to which bamboo is being put to. Apart from its utility as food and medicine, in minor tools, implements and daily utilities, bamboo is extensively used for handicrafts, furniture and even art. Its application has expanded to boards, ply and shuttering materials for use in buildings and construction. It has also been developed as an energy source in the form of charcoal, activated carbon and even to generate electricity through gasification.

Realizing the immense socio-economic potential of bamboo, the Government of India has launched the National Bamboo Mission (NBM) and the National Mission on Bamboo Application (NMBA) for its holistic development, cultivation and for developing the technologies and applications for bamboo based products. I am confident that the bamboo scenario in the country will significantly improve in the coming years

through these interventions for the benefit of our people.

The state of Nagaland has been a pioneer and had adopted a Bamboo Policy in 2004. The Policy articulates the development of Bamboo in Nagaland along two approaches:

1. Development of Bamboo as a Resource, and
2. Development of Bamboo as an Enterprise  
Developing bamboo as a resource is focused on optimal cultivation and management of bamboo resources, through development of natural bamboo forests and bamboo plantation development. Development of bamboo as an enterprise is focused on developing bamboo-based industries, service sectors and ancillary activities including tourism. The Nagaland Bamboo Development Agency has a mission to generate new employment opportunities based on bamboo. I congratulate the Chief Minister and the state government for taking such initiatives and call on other bamboo producing states to emulate this example.

In order to realize the full potential of bamboo, various technical, financial and entrepreneurial interventions are needed in the fields of forestry, land use, propagation technology for its cultivation and sustainable use, and in the areas of industry and finance. I am confident that the economic and technological capabilities of our nation can bring



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about a Bamboo revolution in the country.

I extend my best wishes to all the participants here today and once again thank the Chief Minister for inviting me to this function.

**2. Minister Pu S. Hiato thusawi chu :**

Hon'ble Chairman, respected Chief Guest, distinguished delegates and dear friends.

It is a great privilege and honour to be a part of this World Bamboo Day Celebration which is being held in the state of Nagaland and I, on behalf of the state of Mizoram, thank the Government of Nagaland for inviting our State to participate in this grand event. The World Bamboo Day Celebration is for the first time being held in the North East and Nagaland has ably hosted the Celebration.

I am truly impressed by the hospitality of the people of Nagaland and their positive attitude towards the importance of bamboo which has the potential to uplift the Socio-economic status of the people. As we all know, in our North Eastern States, bamboo has been an indispensable part of our lives since the olden days till date.

Mizoram, with an area of twenty one thousand and eighty seven square kilometers, has an abundant reserve of bamboo forest covering 12.544 lak hectares, contributing to 14 percent of all India bamboo distribution. Bamboo is growing well from

four hundred to one thousand five hundred and twenty meters altitude. *Melocanna baccifera* (mautak) is the major component phenomenon of gregarious flowering in the year 2006-2008 with a total loss of three thousand, three hundred and twenty four point six three million culms in the 8 districts of Mizoram. However, with the help of the National Bamboo Mission, a huge area of bamboo plantation has come up for which, I would like to take opportunity to thank the Ministry of Agriculture, Government of India for their support.

**INCENTIVES IN BAMBOO INDUSTRY :**

As I have mentioned before, bamboo has played an important role in the life of the Mizo people. With the advancement of technology many bamboo based industries have come up in the State of Mizoram. The Mizo Bamboo Development Agency has also taken several steps for the growth of bamboo sector development. Some of the activities include setting up of 9 (nine) bamboo chipping units at various places in the State. The bamboo chips produced are intended to be supplied to paper mills. Setting up of bamboo processing units like; Round & square agarbatti stick making unit, Mat weaving units, Bamboo pebble mat units, Bamboo charcoal & vinegar making units, etc are few activities taken up by the Agency.

As in some other states of North East, bamboo has thrived and flourished in the State of Mizoram and no other state in the North East has produced more bamboo than our State as nature's bounty has favoured for

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their growth.

SKILL, TECHNOLOGY AND FUNDING :

However, I find it sad that we still lack the necessary funding technological know-how and training resources to develop the industrial infrastructures to promote further growth of the bamboo industry within our State. And we do hope that the members of the National Bamboo Mission (NBM), National Mission of Bamboo Application (NMBA), International Network for Bamboo and Rattan (INBAR), UNIDO and World Bamboo Organisation and other Agencies realise our plight and take necessary steps towards the realisation of this need.

Given the required backing, I am sure that we would be able to produce high quality bamboo products for different applications and end-use.

I would also like to take this opportunity to invite prospective entrepreneurs in bamboo related fields to come to Mizoram and do business with us. There are advantages:

- availability of industrial estates at reasonable costs.
- sufficient water and power supply.
- single window clearance for investors' project proposal.
- availability of fast learning local youth.
- congenial business environment.
- an overall peaceful environment in the State, etc.

I, once again, express my heartfelt gratitude to the organisers of this World Bamboo Day Celebration and hope that this will usher in a new era of economic boon for the country.

Thank You

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## NATIONAL MISSION ON BAMBOO APPLICATION (NMBA)

*H. Lallianmawia  
Asst. Project Manager (E)  
Bamboo Development Agency*

China dawta khawvela Mau chi hrang ngah ber India ram hruaitute chuan kan rama mau chi hrang hrang te t̄angkai zawk leh ram sum leh pai dinhmun siamtha tura awmze nei zawka siamchhuah a t̄ul tih hria in 10<sup>th</sup> Five Year Plan chhung khan mau hman t̄angkai kawnga hma la tur hian sawrkar laipuaia Ministry of Science & Technology and Earth Science hnuaiah National Mission on Bamboo Application (NMBA) hi din a ni. Hei mai bakah hian India ramah mau a lo pun theihna atan leh kawng hrang hranga kan hman t̄angkai theih turin Ministry of Agriculture hnuaiah National Bamboo Mission (NBM) din a ni bawk.

September 18, 2010 khan Nagaland- a World Bamboo Day lawmnaah India Vice President **Shri M. Hamid Ansari** pawhin thusawiin India hmarchhak ramten mau kan vanneihpui theih tur zia leh sawrkar laipui pawhin a ngaih pawimawh zia a tarlang a. Rampum a mau zawng zawng a t̄anga 66% hi India hmarchhak a awm a nih thu te, chung mau zawng zawng chu a pum a hralha a hlutna Rs. 5000 crores vel a nih laiin tunlai thiamna hmanga a hlutna tihpun a nih chuan a let tam tak a nih theih thu a sawi a. Chu chu mipuite tana eihmuhna mai bakah rampum sum leh pai dinhmun tidanglam pha hial a ni a, India sawrkarin a din chhan ang taka NMBA leh NBM te hman t̄angkai a nih chuan nasa takin ram leh hnamin a hlawkpui dawn a ni tiin a sawi nghe nghe a ni.

Mau hi tunlai khawvelah kawng hrang hranga hman t̄angkai chhoh mek a ni a, kan hriat lar sa - paper siamna leh agarbatti fung siamna tihte bakah inchhung chei mawina hrang hrang atan te, insakna ruhrel atan te, kawlpheatha siamchhuahna atan leh thil dang dang ah te hman t̄angkai a ni ta zel a. NMBA hi tunlai science thiamna hmang-a kawng hrang hranga mau hman t̄angkai theihna tur kawng kawhhuomu, a rintlak dan lo zirchiangtu, hemi kawnga hma la duh te lo tanpuitu atana duan leh din a ni. NMBA tana sum ruahman te hi heng tarlan hrang hrang ah hian a t̄ul dan anga semdarh leh thin a ni. NBM erawh hi chuan NMBA hmalakna lo tanpuina atan mau phun belh leh mau tihpun lamah hma a la mah zawk a, mau hralh leh mau hmanga thiamhnang dehchhuah lam pawh a hma tel tho bawk.

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NMBA hmalakna hrang hrang te chu hetiang hian sawi ila -

i) *Wood substitutes and composites:*

Thing hmanga plywood leh board hrang hrang an siam thinah hian thing hmang lovin mau a hman theih deuh vek a. NMBA hian chutiang atana hmanrua siamchhuah leh tihchangtlunna kawngah te, siamchhuah sa that leh that loh enchhinna leh a chawikan kawngah hma a la a, heng atana industry dintute a theih angin a pui bawk thin. Industry tlachhe tawh Arunachal Plywood Industries Ltd., Namsai khua ami chu NMBA puihna-a dinthar lehin Arunachal Agro Bamboo Products, Chowkham khua ami pawh bamboo plywood siam thei turin a pui bawk a ni. Chutiang bawkin Assam ah pawh plywood siamna industry khar tawh (KITPLY, Margherita) chu bamboo plywood leh bamboo particle board hrang hrang siam thei turin NMBA puihna in dinthar leh a ni bawk. Mizoramah pawh ZONUN Matply, Grace RTP Bamboo, CeeKee Bamboo tih te hian NMBA puihna an dawng bawk a ni. Heng lo pawh hi state hrang hrang NMBA hian thing thlaktu atana mau hmang turin industry din turin sum leh pai te-a a tanpui thin bakah training leh workshop hmangin thiamna lamah a pui nasa em em a ni.

ii) *Construction & Structural Applications:*

Mau hi kan pi leh pu te hunlai pawh khan In sakna atan te, thlam leh zawlbuk chakah an lo hmang yangkai tawh thin a. NMBA pawh hian hetiang zawng a hma lain in leh lo tam tak Mau hmanga din in a zir chiang nghal

bawk a. Zirna In hrang hrangah Classroom, Laboratories, Guest house, Toilet, etc. te mau hmangin a din a. Damdawi In te, Office te, Restaurant, etc. te pawh ram chhung hmun hrang hrangah a din a ni. NMBA in hetiang atana mau hman thatna a tarlanah chuan thlipui leh limghing laka a him bikna te, khawlum hrehawm lutuk lakah mi a vawngdai tih te, a rih loh avanga awlsam taka thlak leh sawn zung zung theih a nih te leh a man tlawmna te hi a taka a hmuhchhuah a ni a. Mau hi In leh Lo din dawna chak tha tak a nih avang hian NMBA hian hemi kawngah hian theitawp a chhuah mek a ni.

Mau hi In leh Lo din nan a rintlak zia entirna atan NMBA hian hmun hrang hrangah demonstration house sain a pui bawk a. Chandigarh-a Bamboo Valley a din te, Joshimath, Haldwani & Kotware (Uttaranchal)-a Bamboo House te, South Tripura a Anganwadi Centre 5 a sak te, Nagaland a Emergency Operation Centers district tin a sak te, Assam hmun hrang hrang ami te, Pasighat, Arunachal Pradesh-a khum 50 awmna Child Hospital, mau hmang veka sak te hian a rintlak zia a lantir a. Tawang, Arunachal Pradesh-a sikul pakhat phei chu NMBA kaihhruaina-in temperature -30 C, vur 3 ft a chhah, limghing leh thli 100 km/hr pawh dawl zo tura sak a ni hem mai.

iii) *Agro-processing:*

Rawtuai hi kan ei nasa khawp mai a, fur lai chuan kan chawhmeh bazaar mawitu ber a ni. Amaherawhchu, tuna kan zawrh dan aia hlawk zawk, kumtlwana dahthat theih leh hmun danga thawnchhuah theiha buatsaih tur

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hian NMBA hi a inhawng hle a. Rawtuai hi Tamil Nadu Agricultural University (TNAU) ah scientific test tih tirin, chumi result hmang chuan, a pack dan chi 3 – cluster level shoot processing, vacuum packing leh canning tih dan tur a duangchhuak a. Chutianga packing a kalpui dan te chu training te pein industry din turte a tanpui bawk a ni. NMBA puihna hian Nagaland leh Assam te chuan rawtuai hi changkang zawk, hrisel zawk leh manto zawkin an thawnchhuak nasa hle a ni.

iv) *Machinery & process technologies* :

NMBA hian mau hmanga industry din tumte hman turin khawl chi hrang hrang siamchhuah kawngah khawl siamtute sum leh pai bakah thiamna hmangin a pui nasa hle bawk a. Khawvela Mau khawl tam tak hi China leh Taiwan vel atanga siamchhuah a nih deuh vek laiin kan ram mau mil tur khawl, a mawl ber atanga a changkang ber thlengin, man tlawm zawk leh tlo si siamchhuak tur hian hma a la nasa em em a ni. India rama khawl siamtu company 36 lai tunah hian NMBA hian a thawhpui a ni.

v) *Propagation & Cultivation* :

Mau chi hrang tam tak a awm a, mau hmanga industry din tum te tan kan mau neih tam ang chi kha a hman tlak vek kher lo mai thei a. Kan hmanna tur azirin tehna hrang hranga chi tha bik awm thei a ni a. NMBA hian science thiamna hmanga kuiñah leh phun hlawk dan te, thar tam theih dan te ngun taka zirin mipuite hnenah zirtima – training, awareness, etc. a buatsaih thin bawk.

vi) *Bamboo for energy* :

Mau hmanga kawlphehthia siamna atan hian Bamboo Gasification Plant a duangchhuak a. Bairabi-ah pawh NMBA puihna hian 75KWe plant din a ni. Electric awm lohna leh a lakna harsatna hmunah he gasification plant hmang hian kawlphehthia siamchhuah theih a ni. Arunachal-a Namsai Residential School te, Hindustan Paper Corporation, Jagi Road and Hindustan Paper Corporation, Panchgram-ah te, Assam Forest Department hnuai Forest Complex, Bashistha, Guwahati-ah te, Nagaland Bamboo Resource Centre CFC tana 100KWe te, Tripura lama an din te hi India rama an hmalakna langsar zual an ni.

vii) *Industrial products* :

Product liantham bakah a te lamah pawh heng agarbatti stick siam te, a roll-na te, bamboo blinds, handicrafts, charcoal, mat weaving, bamboo strips, leh a dang tam tak, mau atanga thil tangkai dang siamchhuahna lam chi zawng zawngah hian NMBA hian a ti tak tak tur chu a pui thei reng bawk.

NMBA hian India rama mau hmanga thil siamchhuah te hi an website-ah a zawrh chhuah sak thei reng bawk a. Hemi atan hian an website-ah registration tih mai theih a ni. Tin, mau hlawkna tipung (value addition) tur hian hmun hrang hrangah training/workshop an buatsaih reng bakah mau hmanga industry din turte tan heng lehkhabu/CD te hi a duh apiang tan lei theihin a buatsaih bawk –

- a) Preservation of Bamboo - Training Manual
- b) An Annotated Bibliography (CD)

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- c) The Bamboo Book - Field Guide
  - d) Bamboo Flooring - Market Assessment
  - e) Bamboo Furniture Components - Market Assessment
  - f) Bamboo Shoot Processing - Training Manual
  - g) Building with Bamboo - Training Manual
  - h) Propagating Bamboo - Training manual

India rampum huap pawha mau nei tam ber pawl kan ni a, kan ram zawng zawng 31% hi mau hmun a ni a. Chuti chung chuan kan mau te a hlutna angin kan la hmang lo hle a ni. Kan thenawm state; Tripura, Nagaland leh Assam te'n an mau neih ang ang te an hman tangkai tawh lain kan la pha lo hle. Sawrkar laipui a inhawng em em a, kan la inhai pawp taww lo deuh niin a lang. A ti tak tak leh theihtawp chhuah tur te chu heng NMBA/NBM atang te hian bul a tan theih ngeiin a rinawm. Ni tin kan ram atang

hian mau pum engemawzat Rs. 2/1 lek lek chawiin an tawlhchhuak dul dul a, heti lo deuh hian a hlutna engemawzata belhchhah (value addition) hnu-ah thawnchhuak ta zawk ni ila tun ai chuan kan sum leh pai dinhmun te hi a tha zawk hle ngeiin a rinawm. A siam tur (raw material) kan ngah a, hralhna tur (market) a awm baww si a, heti ngawt hian kan la thlir liam mai mai dawn em ni ?

*NMBA hrechiang duh tan :*

National Mission on Bamboo Applications  
Department of Science and Technology  
2<sup>nd</sup> Floor, Vishwakarma Bhawan,  
Shaheed Jeet Singh Marg,  
New Delhi-110016

**Telephone**

Off: 91-11-20901184

Fax: 91-11-26962267

**Website**

*www.bambootech.org*

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## MARKETING ASPECT OF BAMBOO

*Lalduhpuia Sailo*  
*Sr. Administrative & Finance Officer*  
*Bamboo Development Agency*

India ram hi khawvela ram hrang hrang zinga mau tamna ram leh mau hmanga thil siam hralh chhuaktu lian ber te zing ami a ni a. India rama mau hmun thum a thena hmun hnih hi North Eastern Region-ah a awm a. Mizoram hi North Eastern Region-ah chuan mau tamna ber a ni. Chuvangin, India rama mau tamna ber hian, kan ram maute hi kan hman tangkai chuan, intodelhna leh ram hmasawna nasa tak a thlen thei dawn a ni.

Forest Research Institute, Dehradun a mithiamte'n mau thatna an hmuhchhuah atangin mau hi industry a hman uar a lo ni tan a. Inchung bungrua siam nan, insakna bungrua siam nan, vinegar leh charcoal siam nan, etc. mau hi hman a lo ni ta a. Mau hi anti-microbial a nih avangin cotton ai hian a let thumin hnawng a hip chak zawk a, thuamhnaw (cloth) lam siam nan pawh a tha a, Indian Fabric Industry-ah pawh mau hi hman tangkai chhoh zel a ni a. India rama mau hman tamna ber industry chu Paper Mills Industry a ni a, India ramah hian Paper Mills Industry 515 vel a awm a. Mizoram atanga hnai ber chu Cachar Paper Mill (CPM), Panchgram District, Hailakandi, Assam-ah a awm a. CPM-ah hian kan ram mau hi hralh chuah a ni nachungin, kan hralh chuah dan a la mumal loh deuh avangin kan ram mipui tan hlawkna tak tak a la awm thei hrih lo a. Mau ( raw bamboo) hralh ringawt lo deuh hian, mau ( bamboo chips) paper siamna atan a ruahmansa ( semi-finished) hi hralh chhuak

thei ta ila, mau lak khawm leh bamboo chips siam nan mi tam takin eizawna neiin an lo intodelh baw ang a, kan ram leh hnam tan chuan a hlawk zawkin a rinawm a ni. India ram hi khawvela Paper Industry ah a lian ber 15-na a ni a, mau, paper industry atana kum 2006 a mamawhzat 6.8 million tones (2006) chu kum 2010 ah chuan 8.2-8.5 million tones ah pung chho tura ngaih a ni. Chuvangin, Paper Mill a hman tur, bamboo chips siam leh thawn chhuah hi kan ram leh hnam intodelhna atan kawng remchang leh tha tak a ni. Cachar Paper Mill-ah hian Bamboo Development Agency (BDA) chuan bamboo chips Rs.17,44,326/- man a hralh tawh a. Tunah hian BDA chuan Bamboo Chipping Units, Mizoram hmun hrang hrang pakua (9) ah a buatsaih mek a, peihfel an nih veleh Cachar Paper Mill-ah hian bamboo chips hralh chhunzawn tura ruahman a ni. Heng Bamboo Chipping Units-ah hian mipui tan hnathawh tur tam tak a awm thei dawn a, ram mipuite intodelhna leh

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hmasawna siamsaktu a nih beisei a ni. Cachar Paper Mill bakah hian, Bamboo Development Agency leh The Federation of Bangladesh Chambers of Commerce and Industry (FBCCI) chuan bamboo chips Bangladesh Paper Mill-a hralh turin Memorandum of Understanding (MOU) ni 22, July 2009 khan an siam a. Bamboo Chipping Units buatsaih mekte inpeih fel veleh Bangladesh lamah pawh bamboo chips hralh chhuah nghal tum a ni.

Mau hmanga thilsiam chuah hi khawvelin a hlutin hralhna pawh pung chho zel a, mahse, Mizoram mipui tana mau hmanga thilsiam chhuah awlsam ber leh India rama hralhna tam ber pakhat chu agarbatti stick hi a ni. Agarbatti stick hi sum tam tak sen ngai lo a, mahni inchhung lum atang pawha siam mai theih a ni a. Khawvela hal rimtui (incense) hralh chhuah 60% hi Indian Incense Industry thawn chhuah a ni. Chuvangin, agarbatti stick hian market a nei tha em em a, kan ram mipui tan hmasawna thlen thei a ni. India rama incense stick industry langsar zual te chu – N.Ranga Rao & Sons, ITC Agarbatti Business Unit, Sudarshan Doop, Mahendra Perfumery Works, Hari Darshan Shevashram (P) Ltd an ni. Agarbatti (Incense) Industry market thatzia hria in,

Mizoram Sorkar chuan India rama Incense Industry siamtu leh thawn chhuaktu (exporter) lian ber N.Ranga Rao & Sons, Mysore hnenah agarbatti stick hralh turin Bamboo Development Agency (BDA) katlangin Memorandum of Understanding (MoU) ni 27, August 2010 khan a siam a. ITC Agarbatti Business Unit, Chennai-ah pawh BDA hian agarbatti stick 2.4 tones a hralh tawh a. Mahni inlum a agarbatti stick siamte tan mahni buaipui ngai lovin, BDA hian Mizoram pawnah agarbatti stick a hralh sak thei a ni.

Tun tum atan chuan mau hmanga thilsiam hrang hrang market kan sawi vek seng lo ang a. Bamboo product neite tan National Mission on Bamboo Application chuan Bamboo Marketing Portal a buatsaih mek a, hei hi bamboo-based industry neite tan chuan tangkai tak tur a ni.

Hrechiang duh tan a hnuaia website te hi en theih a ni e.

*<http://www.bambootech.org>*

*<http://www.nrreexports.com>*

*<http://www.hindpaper.in>*

*<http://www.itcportal.com>*



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## SPECIES OF BAMBOO

*Lalzarliana Hrahsel*  
*Assistant Project Manager(B)*  
*Bamboo Development Agency*

Mau leh rua chu hnimhnah lam chi, hniamte atanga sang tak tak ni thei, thang duang tak a ni. A classification chu a hnuai tarlan ang hi a ni.

KINGDOM	: Plantae
DIVISION	: Magnoliophyta
CLASS	: Liliopsida
SUBCLASS	: Commelinidae
ORDER	: Cyperales
FAMILY	: Poaceae
SUBFAMILY	: Bambusoideae
TRIBE	: Bambuseae
SUBTRIBE	: Bambusinae

Mau hi hlawm hnih lian takin then a ni a, chungte chu i) A hunga to chi (clump forming or sympodial or leptymorph. e.g. Phulrua. ii) A mala to chi (non-clump forming or monopodial or pachymorph).e.g. Mautak.

*Khawvel ram hrang hrangin mau an neih dar.* Mithiamten an chhut dan chuan Khawvel mau chi hrang 1500 chuang a awm a, chung chu genera 70 ah then a ni. Khawvel rama hectare maktaduai 18 zet hi mau hmunin a khuh a. Mau hi a tlangpuii ram lum-hnawng (tropical) leh lum- hnawng deuh (sub-tropical) ah a to ber. Khawvela mau awm dan te chu:

### *Diversity of Bamboo*

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Countries and regions	Native	Introduced	Naturally occurring according to Ohm Berger(1999)
<b>ASIA</b>			
China	500	10	626
India	119	25	102
Japan	139		84
Myanmar	97		75

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Vietnam			69
Indonesia	118	17	56
Malaysia	92	1	50
Thailand			36
Philippines	21	32	26
Nepal			25
Papua New Guinea	25	12	22
Bhutan			21
Bangladesh	33	4	18
Lao People ' s Democratic Republic			13
Sri Lanka	10	20	11
Brunei Darussalam			6
Cambodia			4
Pakistan	3	13	3
Australia			3
Republic of Korea	5	46	2
Turkey			5
<b>AFRICA</b>			
United Republic of Tanzania	4	5	4
Uganda	2	4	3
Malawi			3
Zambia			3
Ethiopia	2		2
Zimbabwe	1	5	2
Cameroon			2
Sudan			2
Togo	3	11	1
Kenya	1	11	1
Algeria			7
<b>South and Central America</b>			
Brazil	232	20	134
Venezuela (Bolivarian rep. of)			68
Colombia			56
Ecuador	42	23	41
Costa Rica			36
Peru			35
Mexico			32

Bolivia			20
Panama			19
Chile	11	40	14
Cuba			13
Guatemala			12
Argentina			12
Honduras			8
El Salvador			7
Nicaragua			7
Haiti			7
Trinidad and Tobago			7
Dominican Republic			6
Paraguay			6
Uruguay			5
Guyana			5
Puerto Rico			5
Suriname			4
Belize			3

**India rama mau awm dan :**

India ram chhunga forest area-a chhiar za zelah 11.71% (approx) hi mau-in a luah khat a. Chu chu, a zau zawngin hectare maktaduai 8.96 vel a ni. A tam lam zawnga chhutin kan ramah hian mau hi ton maktaduai 80.42 vel a awm a, chung zinga 66% chu North-East state huam chhung ami a ni a, 67.3% chu a hunga to chi (clump forming) a ni. Mau ngah deuh deuh State te chu :

Assam - 16%	Mizoram - 14%	Manipur - 14%
Arunachal Pradesh - 12%	Meghalaya - 6%	Nagaland - 6%
Madhya Pradesh - 12%	Orissa - 7%	Maharashtra - 5%

**Mizorama mau dinhmun :**

Mizoramah hian mau chi hrang engemawzat a awm a, mau awm zawng zawng hi kum 2001-02- a chhut dan chuan ton maktaduai 25.26 zet a ni. India rama mau awm zawng zawng za zelah 14% hi Mizoramah a awm a. Chung zingah chuan ram leilung a awm sa (indigenous ) 21 awmin, 14 chu ram/hmun dang a tanga lakluh (introduced) a ni.

*Mizorama mau awm te chu :*

S/No	Scientific Name	Mizo hming	Status
1	<i>Bambusa balcooa</i>	N/A	Introduced
2	<i>Bambusa bambos</i>	Rawhling	Introduced
3	<i>Bambusa dampiena</i>	N/A	Indigenous
4	<i>Bambusa mizorameana</i>	Talan	Indigenous
5	<i>Bambusa multiplex</i>	N/A	Introduced
6	<i>Bambusa nagalandeana</i>	Ralleng mau	Indigenous
7	<i>Bambusa nutans</i>	Ankuang	Introduced
8	<i>Bambusa tulda</i>	Rawthing	Indigenous
9	<i>Bambusa vulgaris</i>	Vairua	Introduced
10	<i>Bambusa vulgaris</i> var. <i>vittata</i>	Yellow bamboo	Introduced
11	<i>Bambusa vulgaris</i> f. <i>waminii</i>	N/A	Introduced
12	<i>Dendrocalamus asper</i>	N/A	Introduced
13	<i>Dendrocalamus giganteus</i>	N/A	Introduced
14	<i>Dendrocalamus hamiltonii</i>	Phulrua	Indigenous
15	<i>Dendrocalamus hookeri</i>	Rawpui/ Rawlak/ Rawkhauh	Indigenous
16	<i>Dendrocalamus latiflorus</i>	N/A	Introduced
17	<i>Dendrocalamus longispathus</i>	Rawnal	Indigenous
18	<i>Dendrocalamus manipureanus</i>	Rawchhe/Rawchhe-changdam	Introduced
19	<i>Dendrocalamus sikkimensis</i>	Rawmi	Indigenous
20	<i>Dendrocalamus strictus</i>	Tursing	Indigenous
21	<i>Melocalamus compactiflorus</i>	Sairil	Indigenous
22	<i>Melocanna baccifera</i>	Mautak	Indigenous
23	<i>Neomicrocalamus mannii</i>	Siaman	Indigenous
24	<i>Phyllostachys edulis</i>	N/A	Introduced
25	<i>Phyllostachys mannii</i>	N/A	Indigenous
26	<i>Schizostachyum dullooa</i>	Rawthla	Indigenous
27	<i>Schizostachyum fuchsianum</i>	Rawnal	Indigenous
28	<i>Schizostachyum mannii</i>	Rawte/ Chalte	Indigenous
29	<i>Schizostachyum munroii</i>	Nat	Indigenous
30	<i>Schizostachyum pergracile</i>	Maudang	Introduced
31	<i>Schizostachyum polymorphum</i>	Chal	Indigenous
32	<i>Sinarundinaria falcate</i>	Lik	Indigenous
33	<i>Sinarundinaria griffithiana</i>	Phar	Indigenous
34	<i>Sinarundinaria longispiculata</i>	N/A	Indigenous
35	<i>Thrysostachys oliveri</i>	Phunkirua	Introduced

### **Commercial Species :**

Mau hi sum chang thlai ti pawhin a sawi theih awm e. Kan rama mau chi hrang hrang te hi handicrafts lam te, industry lama thil chi hrang hrang siam nan e.g. bamboo flooring,

bamboo laminated board, bamboo ply, paper siamna atan te, agarbatti stick siamna atan te, charcoal & vinegar siamna atan te leh kawng hrang hrangah a hman theih a. Kan ram mau awm zingah heng a hnuai ami te hi National Mission on Bamboo Application (NMBA) in sum leh pai lama hlutna nei a tihte chu an ni.

<b>Scientific Name</b>	<b>Mizo hming</b>
1. Bambusa bambos	Rawhling
2. Bambusa nutans	Ankuang
3. Bambusa tulda	Rawthing
4. Bambusa balcooa	
5. Bambusa vulgaris	Vairua
6. Dendrocalamus hamiltonii	Phulrua
7. Dendrocalamus longispatus	Rawnal
8. Dendrocalamus strictus	Tursing
9. Dendrocalamus giganteus	
10. Melocanna baccifera	Mautak
11. Schizostachyum Dullooa	Rawthla
12. Thrysostachys oliveri	Phunkirua

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## BAMBOO CHIPPING CLUSTER

*K. Lalhmingthanga*  
*President*  
*Mizoram Chamber of Industries*

Mizoram hian kan ngah ber mai, kan hman ʔangkai tak, mahse sum leh paia kan chantir tak tak lem loh chu MAU a ni a. Mau-ah pawh Mautak (Mecalona Bambusa) an tih hi a ni a. Kum 1995 khan Mizoram Chamber of Industry chuan, kum 2007-a mau lo tam mai tur hi a lo enghelh tawhin, Mizoram sorkar-ah a lo thlen tawh a. Khatih lai khan vanneihthlak takin Dr. C. Silvera, Mizoram MP chu central sorkar-ah Minister of State i/c Industries a lo ni hlauh bawk a. Industries Department, Government of Mizoram leh Hindustan Paper Corporation Ltd. (HPC Ltd.) te chu inbe rawnin, Bairabi-a chipping mill din turin hma an la a. Mahse harsatna a awm pawh a ni ang e, a thu a tawp ta niin a hriat a. Kum 2002 khan thar thawh lehin Mizoram sorkar, Industries Department chuan Bamboo Development Agency (BDA) a din ta a.

BDA chuan a mau pulung a kan thawn chhuak ʔhin hi value added (a hlutna siam belh)-in thawn chhuak ta ila mipuiin kan hlawkpui zawkin an ring a. Tin, paper mill-a mau lo pai ʔawihtu (digester)-a a chhihri (screener) karah hian mau nuai sawm khawl pangaiin mau a nuai sawm hian mau nawikhan a hnawh ʔhin avangin an buai ʔhin thu an sawi BDA hotute'n an han hriat khan, square bamboo chip an pek theih thu HPC Ltd hotute chu an hrih a. Paper mill-a digester hian vawi khat load-ah bamboo

chip hi a duh hnem hle a, experiment atan a vawi khat load chu manual-in bamboo square chip chu an siam ta a. Chu bamboo square chip chu paper mill-a an han enchhin chuan paper mill-a an duh ang thlap a lo ni a. Chutiang a lo nih tak avang chuan BDA hotute pawh an lawm hle mai a, tichuan Bamboo Chipping Cluster Pilot Project atan hmun 9 (kua) laiah enterprises din an ti tlu ta a ni. Amaherawhchu, khawl neih dan ngaihtuah a lo ngai leh ta a. Khawl ngaihtuah tur hian kei ngei pawh India

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chhim lamah ka zu kal ve nghe nghe a, mahse vanduaithlak takin khawl lei tur ka zu hmu ta mai lova. China leh Taiwan lamah pawh an han zawng naa an hlawhtling ta chuang lova. A tawpah chuan India rama company pakhat Wood Master Ltd, Ludhiana ami chuan an siam ta a. Hmun 8 (pariat) ami tur khawl chu a rawn thleng tawh a, commission hun nghah mek a ni.

Heng chipping cluster enkawltu tur entrepreneurs te hian hmun hrang hrang:

- (1) Bairabi,
- (2) Bungthuam,
- (3) Chhingchhip,
- (4) Chuhvel,
- (5) Dapchhuah,

- (6) Hortoki,
- (7) Maubuang leh
- (9) Tuirini-ah

te an bun (installed) ta a. Tun atanga thla hnih chhung hian production neih theih ngei an inbeisei a ni.

He project hi a bul tanna a rei tawh nen a kawng a va thui awm ve? tiin zawhna a awm thei ang, khawvel-a thil thar a nih avang hian a namailo reng a, kan BDA hotute hian ngaihtuahna nasa tak an hna pangai bakah an sengin a enchhin hun ringawt pawh hian hun a duh hle bawka ni. Chuvangin, he project-ah hi chuan, Mizoram Sorkar leh Industries Department, khawvel-a phochhuaktu tur a ni tih a chiang hle a ni.

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## MAU - KAN RAM HAUSAKNA HNAR

### *Hrangchhawna*

Ram leilung hausakna hi hausakna hnar a ni tih chu kan hre theuh awm e. Arab ram te chu oil an neih avangin an hausa em em a. Agriculture emaw industry emaw ah te hmalakna nei lo mahse an rama oil an neih ring khuan kum tam tak nuamsa takin an awm thei dawn a ni. Chutiang bawkin Myanmar pawhin oil, lungflu leh teak te an neih avangin an hausak pui hle a ni. Kan thenawm state Meghalaya te pawh coal, uranium leh limestone te an neih avangin an hausak phah hle. Tin, Karnataka-a Koler goldfield te, Orissa state hmar lam leh Jharkhand state chhim lamah te *iron ore* a awm avang ten, chung ram te chuan an hausak phah hle bawk. Leilung hausakna kan tih hian thil laihchhuah lam chauh a huap lo a, ram zawl leh rem tha thlai chin nana tha tak ram te, ramngaw, thing leh mau nei tha tak ram te, tuifinriat leh dil tha tak nei ram te leh electric siamchhuahna atana remchang lui tha tak nei te pawh ram hausakna bul a ni.

Hetiang kawnga kan ram dinhmun han zir chian chuan kan ramah hian leilung hausakna hmuh tur alawi a awm lo. ram chhengchhe tak hlutna nei si lo a ni ringawt mai a ni. Tunhma ramngaw chhah pui leh ramsa chi hrang hrang tam tak awm thin te kha tun dinhmunah chuan hmuh tur a awm tawh lo a. Tun dinhmuna kan ram hausakna (natural resources) kan la neihchhun chu kan mau hmun hi khuanu-in kan tana min hnutchhiah rohlu awmchhun a ni a, kan hman tangkai thiam dan azirin hausakna bulah hman theih a ni.

Kan state-ah hian ram 31% hi mau hmunin a khuh a, mau ton maktaduai 25 lai awmin kum tina thar chhuah pawh ton maktaduai 5 lai a ni a. India rama mau 14% chu Mizoramah a awm a ni. Kum 1999 khan INBAR (International Network for

Bamboo and Rattan) team in kan ram mau dinhmun te an han enfiah tawh a, ram hausakna bul ni thei ngeiah an ngai. Chutih laiin kan hmang tangkai lo chu mak an ti hle a ni awm e.

Mau tangkaina leh hlutna hi kan hre tlem hle a. Paper siam nan te, agarbati stick atan te, bamboo craft atan te, insakna hmanrua atan te leh Zofaten hmanraw dang dang atana kan hman thin te bak hman tangkaina kan la nei vak lo. Mau hmanna pawimawh zual leh kan ram hausakna hnar a nih zia te i han sawi dawn teh ang.

### **1. Insakna hmanrua atan:**

Thing te kan kih chereu tak avangin thing zai tur kan tlachham tep tawh a. India ram state dang te kan thlir pheh chuan thingzai chu sawi loh tuah tur tak ngial pawh a vang hle



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tawh a ni. Hetih lai hian mau aṭang hian thingphel leh thingzai aia ṭha te, plywood leh block board te aia ṭha te a siamchhuah theih a. Tin, thingzai kan hmanna ṭhin tam takah mau leh rua te chu insakna atan hman theih a ni. China chuan mau aṭanga siam thingzai ang chi an siam chhuah te chu insak nan leh furniture siam nan te an hmang ṭangkai hle tawh a ni. Kan ramah pawh bamboo industry din a ni ve ta a, state dangin thingzai te chu nghei mahse keini chuan mau aṭanga siam, ṭha zawk baw si, kan nei thei dawn a ni.

## **2. Mau aṭanga hmanraw chi hrang hrang (craft) te:**

Mau aṭang hian hmanraw chi hrang hrang tam tak ‘bamboo craft’ an ti chu kan siam chhuak ve thei a. Hei hi zofate rilrem zawng tak a ni a, khaw chhak lamah phei chuan miretheite chawikanna remchang takah an hmang a ni. Zofa chhungkaw tin hian craft industry an din theiin eizawna tluantling takah an hmang thei.

## **3. Rawtuai tharchhuah :**

Scientist te chuan rawtuai hi chaw ṭha ber pawl a ni an ti a. Rawtuaiah hian kan taksa-in ni tina kan mamawh protein, fat, carbohydrate te leh mineral te an awm a. Tin, vitamin chi 17 awmin fibre a nei tam bawk nen chaw ṭha tak a ni an ti. Khaw chhak ram China, Japan, Taiwan, Indonesia, Thailand

Philipine, Malaysia te ang te chuan rawtuai hi an ei nasa-in sumdawna lian tak an nei hlawm a ni. India ramah pawh hian Chinese restaurant leh a dang changkang chin deuh te leh Five Star hotel-ah te chuan englai pawhin rawtuai ei tur an nei ṭhin a, heng rawtuaite hi khawchhak lam aṭang lak luh vek an ni. Kan ramah rawtuai kan tharchhuah ve hunah chuan eizawna ṭha tak a ni ve mgei ang.

## **4. Bamboo Charcoal & Vinegar :**

Mauhawl siam rualin vinegar a siam theih a. Mauhawl chu thinghawl (meihawl) aiin a ṭha fe zawkin market lamah pawh harsatna a awm lo. Tin, vinegar hi rannung thah nan leh thlai tan leiṭha him taka hman theih a ni. Tin, kangah te, rannung sehah te, phurthakah te damdawi ṭha tak a ni baw. Tin, vinegar hi organic a nih avangin kan ramah pawh hian rei loteah kan hman lar thuai a rinawm.

Heng kan han sawi bakah hian mau hmun chu ramngaw siamṭhat nan leh boruak bawlhhlawh hip raltu ṭha ber a nih avangin scientist te chuan eco-friendly material an ti hial a ni. Kan ramin carbon trading te kan tih ve hunah chuan kan mau hmun zau tak neih te hi kan la hausak pui hle dawn a ni.

Hetiang taka rohlu kan ramin kan nei hi a rang thei ang bera hman ṭangkai a va ṭul em.

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## **THE MIZORAM INDUSTRIAL AREA** (MANAGEMENT, REGULATION & CONTROL) RULES, 2008

*Lalhrilliana*  
*Industrial Promotion Officer,*  
*Directorate of Industries.*

Industries Department hnuaiah hian sawrkar ram thilsiamna hmun leh zawrhchhuah nana buatsaih engngemaw zat a awm a. *Industrial Estate, Industrial Growth Centre, Integrated Infrastructure Development Centre* leh *Export Promotion Industrial Park* te hi kan hriat larte chu an ni a. Heng industry dinna atana hmun hma Industries Department-in a buatsaih hi Industrial Area a ni a. Tun hma zawng kha chuan heng Industrial Area enkawl dan tur dan leh hrai mumal sawrkar chuan a nei ngai lo va. Kum 2008 khan Section-11 of Mizoram Industrial Area (Management, Regulation and Control) Act, 2008 in a phalsak angin Governor of Mizoram chuan Rules a lo siam ta a. A Rules hming atan **The Mizoram Industrial Area (Management, Regulation and Control) Rules, 2008** vuah a ni ta a ni. He Rules hi Mizoram Gazette issue No 489 dt 24.11.2008 ah tih chhuah a ni a. Hei hi tuna kan sawi tur ber chu a ni ta a ni.

The Mizoram Industrial Area (Management, Regulation and Control) Rules, 2008-ah hian section 6 a awm a. Heng section-te hi a mal malin lo sawi òan ila.

### **Section 1**

*Short title, extent and commencement :*

Section 1 hian sub-section 4 (pali) a nei leh chhawng a.

Sub Section 1: Rules hming atan The Mizoram Industrial Area (Management, Regulation and Control) Rules, 2008 tih a ni ang tih a ni a.

Sub Section (2) : He rules hi thu neitu dik tak hnuaia in registered tawh emaw memorandum file tawh te tan a ni ang tih a ni leh a.

Sub Section (3) : Dan (Act) anga hman theih a ni ang.

Sub Section (4) : He rules hi Mizoram Gazette-a a chhuah ni a òangin hman òan nghal tur a ni ang tih a ni a. Chuvangin he The Mizoram Industrial Area (Management, Regulation and Control) Rules, 2008 hi dt 24.11.2008 a òanga hman òan tihna a nih chu.

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## Section 2

### *Definitions :*

Section 2 hi rules chhunga thumal hrilhfiahna a ni a. Sub section 23 (sawmhnih leh pathum) awmin thumal 23 (sawmhnih leh pathum) hrilhfiah a ni a. Heng hi chu tun hunah chuan a mal te te a sawi chhuah ngai lo turah ngai mai ila. Kan fiah theih nan tlem han sawi lang hlek chauh ila **'Director'** tih chu **Director of Industries** tihna a ni ang a, **'Plot'** tih chu **industrial unit pakhatin a ram luahtur ram valh sak len zawng** sawina a ni ang tih te, **'Tenant'** tih chu **inremna fel tak siam a Industrial Area chhunga ram luahtute tihna** leh thumal hrilhfiah ngai dang 23 (sawmhnih leh pathum) lai hrilhfiah a ni.

## Section 3

### *Appropriate Authority :*

He section-ah hian Industrial Area ding lai chungah thuneitu tur tarlan a ni a. Industrial Area piang belh zel tur atan erawh chuan Governor-in notification siamin thunei tur awm ber hnenah appointment a pe ang tih a ni.

### *Chung thuneitu tur te chu :*

- 1) Industrial Estate, Zuangtui - *Director of Industries.*
- 2) Industrial Growth Centre, Luangmual - *Director of Industries*
- 3) Export Promotion Industrial Park, Lengte - *Director of Industries*

- 4) Integrated Infrastructure Development - *General Manager, DIC Centre, Pukpui Lunglei*
- 5) Integrated Infrastructure Development - *General Manager, DIC Centre, Zote Champhai*

## Section 4

### *Industrial Area Advisory Committee :*

Section 4 hian sub section pahnih a nei a. Pakhatna chu Industrial Area Advisory Committee dinna, member tur tarlanna ti mai ila. A pahnihna chu Industrial Area Advisory Committee hna thawh dan tur sawina a ni.

Member tur te:

He Industrial Area Advisory Committee ah hian chairman atan Chief Secretary to the Government of Mizoram leh Member Secretary atan Secretary to the Government of Mizoram, Industries Department ruat an ni a. Sawrkar department hrang hrang hotu lu 10 (sawm) zet member atan a ruat an ni bawk a. Tin, hei bakah hian sawrkarin mi pahnih aia tam lo Industries Association aiawh member a ruat thei bawk ang tih a ni.

### *Sub-Section No. 2 of Section No. 4*

Industrial Area Advisory Committee hnathawh dan tur.

- (i) Industries Association aiawhte hi kum hnih term a ni ang a. Eng emaw vanga an term ral hmaa an awm loh emaw

- an thi emaw a nih chuan sawrkarin an hmun awl a dahkhat leh nghal ang.
- (ii) Industrial Area Mizoram chhunga puan belh ngai awm apiang a ngaihtuah thin ang.
  - (iii) Industrial Area Advisory Committee chuan Mizoram hmun hrang hrangah Industrial Area thar siam turin hma a la thin ang.
  - (iv) Industrial Area Advisory Committee chuan Industries Department chu he mi chungchanga thupek tih chhuah, certificate pek chhuah leh thil mamawh ngaihtuahna kawngah thurawn a pe thin ang.
  - (v) Industrial Area Advisory Committee chuan Act hnuaiah Rules siam turah te sawrkarah thurawn a pe thin ang.
  - (vi) Industrial Area Advisory Committee chuan an hnena Industrial Area Management Committee-in thu thlen apiang a ngaihtuah thin ang.
  - (vii) Member pasarih an kal khawm chauhin ro an rel thei ang.

### **Section 5**

#### *Industrial Area Management Committee :*

Section 5 hian sub section pali a nei a. Industiral area Management Committee ruatna, Co-opted member pahnih aia tam lo chairman-in hruai theihna leh an hna thawh dan tur sawina te a ni.

*Sub-Section 1 of Section 5* ah hian tuna

Industrial Area neih lai panga atan Industrial Area Management Committee ruat fel a ni a. Member atan hian 10 (sawm) vel zel ruat an ni a. Aizawl District chhunga Industrial Area Committee Chairman atan Secretary to the Government of Mizoram, Industries Department leh Secretary atan Director of Industries ruat an ni a. District dang zawngah chuan Chairman atan Deputy Commissioner ruatin Secretary atan General Manager, DIC te ruat an ni.

*Sub-Section 2 of Section 5* ah hian Chair-man-in an tel tula a hriat chuan an mahni pui turin official tupawh tel turin a sawm thei ang tih a ni bawk.

*Sub-Section 3 of Section 5* ah hian Industrial Area Management Committee hnathawh dan tur tarlan a ni a. Committee hian Industrial Area chhunga ram luah phalna emaw an luah phalna ti tawp turin recommendation a siam thin ang. Committee hian allotment fee leh annual lease rent recommendation a siam thin ang tih a ni bawk a. Thilsiamna a zirin factory shed sak dan tur design leh specification a bithliah ang. Tin, Industiral Area chhunga infrastructure mamawh ang pawh a bithliah thin ang. Committee chuan an bial chhunga ram luahtute innghirnghona a awm chuan a ching felin rambuai a awm chuan a ching fel tur a ni. Thildang management chungchanga harsatna leh ngaihtuah tur awm reng reng a

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ngaihtuah thin bawk ang tih a ni. Tin, dan leh thupek emaw inremna bawhchhia te chu thu neitu sang zawkte kut thlak turin an ngaihtuah thin ang a. An tana ngaihtuah harsa a awm chuan Industrial Area Advisory Committee-ah an thlen thin ang. Member 6 (paruk) an kalin ro an rel thei ang tih a ni.

*Sub-Section 4 of Section 5* ah hian hetiang committee hi Industrial Area thar atan a din zel thei ang tih a ni.

## **Section 6**

*Miscellaneous :*

He section ah hian thil pali tarlan a ni a.

**a. Mode of submitting application :**

Form siam sa hmangin copy hnihin miin hmun dilna Industrial Area enkawltu Industrial Area Management Committee hnenah an theh lut tur a ni. A dilna form hi sawrkarin a duh hun hunah a ennawn thei ang.

**b. Allotment of Plot/Shed and Payment of fees:**

Ram hi thuneituten dan angin an sem ang a, ram luahtu tur ten an ram duh lai an thlang ngawt thei lovang. Ramluahtu chuan one time

allotment fee sawrkar bituk zat a ram a khawih atanga thla khat chhungin a pe ngei tur a ni a, annual lease fee pawh sawrkar bituk zat a pe tur a ni.

**c. Water and Electricity :**

Electric leh tui lak luhna man zawng zawng ram luahtuten a concern department bill zat theuh an pe tur a ni.

**d. Plots occupied under Provisional Allotment:**

He Rules awm hmaa Industries Department emaw thuneitu dangin emaw Provisional Allotment a lo pek tawh zawng zawng chu Industrial Area Management Committee-in a ennawn hnuah an recommendation angin thuneitu sang zawkten pek zui zelna emaw cancel-na turin hma an la zui ang.

Aw le, tuna tan chuan khing te khi Mizoram Industrial Area (Management, Regulation and Control) Rules, 2008 chungchanga kan sawi theih chu ni mai se. Hetianga Rules fel tak kan han nei ta hi a lawmawm a. Mizorama thilsiamna dintute leh la din leh zel tur te tan a lawmawm lehzual awm e.

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## K E I M A H N I

1. August ni 30 leh 31, 2010 khan Export Promotion Industrial Park (EPIP), Lengte Management Committee in EPIP, Lengte enkawl dan tur leh a chhunga industry din duh te dilna an siam fel a, mi 23 (sawmhnih leh pathum) hnenah industry dinna tur ram an pe.
2. September ni 13, 2010 khan I & PR Auditorium-ah Pu R.L. Rinawma, Commissioner & Secretary, Industries Department chuan Zuangtui Industrial Estate chhunga awm tur industry neitute a kawm a. Department-in Industrial Estate enkawl a tum dan tlangpui a hrilh hnuah industry neituten an thil hriat duh hrang hrang zawhna leh Industrial Estate tha taka enkawl a nih theihna tur rawtna te Committee hnenah hian an thlen. Commissioner hi Management Committee Member leh Industries Department-a Officer ten an tawiawm a ni.
3. Pu V. Lalbiaksanga, General Manager, District Industries Centre, Aizawl chu asthma avangin Civil Hospital-ah ni 13 zet a awm hnuin ni 13.9.2010 khan dam takin a lo chhuak leh ta, tha taka a dam chhoh zel kan duhsak e.
4. August ni 13, 2010 khan District Industries Centre, Aizawl buatsaihin ‘Awareness Programme on NEIIPP and its Incentives’ chu Chanmari YMA Hall-ah neih a ni a. Hetah hian industry neitute an kal tha hle a. Nilengin hun an hmang a, hlawk an ti hle.
5. September ni 9, 2010 khan Deputy Commissioner, Aizawl hovin VAT Exemption Committee Aizawl District chhunga industrial enterprise te dilna ngaihtuah a ni a, unit 10 (sawm) phalsak an ni a, 3 (pathum) te erawhchu hnawl an ni. A dang 6 chu en that leh tura dah a ni bawk.
6. District Industries Centre, Aizawl Office Building chhawng chung chu luah tan a ni ta.
7. Pu R.K.Lungmuana, Functional Manager, District Industries Centre, Aizawl chu August ni 23 – 29, 2010 chhung awh ‘Rural Industrialisation Training’ National Institute of Rural Development, Hyderabad-ah a tel.
8. Integrated Handloom Development Schemes hnuai Group Approach Project 7 (pasarih) sanction tawh zinga pathum a) Kawnpui, b) Kolasib, c) Kawltheihuan te chu

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implement an ni a, September thla chhunga zawh beisei a ni.

9. Ministry of Textiles hnuai a Group Approach sanction tawhsa project 6 (paruk) chu implement turin buatsaih mek a ni bawk.
10. July ni 26, 2010 (thawtanni) zing dar 11:00 khan Pu S. Hiato, Industries Minister chuan Industrial Estate Kolasib-ah 'Integrated Handloom Development Programme' a hawng a. Commissioner & Secretary Pu R.L. Rinawma leh Director of Industries Pu Shurbir Singh te bakah Officer dangte'n Minister hi an tawiawm a. Integrated Handloom Development Scheme hnuai a skill upgradation weaving-ah hian Kolasib leh Kawnpui atangin trainees 20 ve ve thlan chhuah ten Flying Shuttle Loom hmangin puantah leh ladeh an zir a, Mizoram-ah handloom trade bikin hmasawwna nasa tak a neih chhoh laiin ram leilung fate tan chhenfakawm tak a nih beisei a ni.
11. Commonwealth Games lawmna peng pakhat 'Delhi Celebrates' atan Development Commissioner (Handicrafts & Handlooms) buatsaih Virasat Exhibition chu September ni 7 – 30, 2010 chhunga Dilli Haat, New Delhi-a neih a Industries Department chuan Hnam Chhantu Pawl tel ve tura a ngen angin Hnam Chhantu Pawl chuan an thilsiam chhuah chi hrang hrangte an pholang ve.  
He exhibition atan hian Stall luah man leh exhibitor pahnihte kal man Department-in a tum sak a, a bak chu anmahni insengso-in an buaipui a, Hnam Chhantu Pawl te inpekna hi Department chuan lawmawm a tiin ngaihhlutawm a ti hle a ni.
12. Development Commissioner for Handlooms, Ministry of Textiles, Government of India chuan 11<sup>th</sup> Plan chhunga tih tur a duan zinga Development Scheme tih puitlinna atan Rs.55.50 lakhs a rawn sanctioned a, Rs. 3.585 lakhs hi State sawrkar tum tur a ni a. Tunah hian 1<sup>st</sup> Installment atan Rs. 15.575 lakhs hmuh a ni a. He project hi Thenzawl Handloom Cluster bikte tana sanctioned a ni. He 1<sup>st</sup> installment hmuh hi ZOHANDCO Ltd. hnenah hlan chhawn tum mek a ni a, anni hian he project enkawl zui hna hi an thawk dawn a ni.

Entrepreneurship Development Institute din nan hian Project Proposal siam mek a ni a. Industries Department hotute hnen atanga thu dawn danin, Government of India hian tanpuina pek ngei a tum a, he Institute hi din a nih hun chuan Mizoram a entrepreneurs ten an chhawr tangkai hle beisei a ni.

Entrepreneurs te exposure trip nei turin China leh Taiwan-a kalna tura Central Sorkar hnenah pawisa dil mek pawh a hlawhtlin thuai beisei a ni.

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13. September ni 17, 2010 khan Group Approach Project sawmhnih pathum (23) district hrang hrang (a) Champhai, (b) Serchhip, (c) Lunglei, (d) Aizawl South, (e) Mamit huam chhunga tih turin Central-ah thehluh a ni a, heng project 23 hi a pawisa chuan Rs.3,54,890,000.00 Central tum turin thehluh a ni a, a takin pawisa la hmu lo mah ila heng project atan hian Central chuan pek min tiam a ni.
  14. Pu S. Hiato, Hon'ble Minister of Industries-in Computer Aided Design (CAD) leh Capacity Building Training Centre, Department of IT, Government of India sponsored chu Directorate of Industries building, top floor-ah a hawng a, he Programme hi Pu R.L.Rinawma, IRS, Commissioner/Secretary-in a kaihruai a ni.
  15. Industries Department, EDP Section chuan Central Food Technological Research Institute, Mysore, Karnataka-ah 'Short Course Training in Food Processing' atan Mizo thalai 20 zet a tir dawn.
  16. Ministry of DONER-in NEC kaltlanga a sponsored programme NEITCO, Guwahati a Industrial Skill Development Training a buatsaih tur atan Selection Committee July ni 20 leh 21, 2010-a Directorate of Industries-a neih chuan candidate te hetiang hian a thlang chhuak :
    - i. Banana Fibre Extraction and Utilisation (4 months course) – 20 candidates.
    - ii. Hair Styling & Beauty Care (6 months course) – 25 candidates.
  17. North Eastern Regional Agricultural Marketing Corporation Ltd. (NERAMAC) Guwahati chuan India Pack 2010 Bombay Exhibition Centre, Mumbai-ah September ni 30 a tanga – October ni 3, 2010 chhunga neihah Mizoram a tanga in Food Processing Unit pahnih M/s Fanai Food Processing leh M/s Jemim Chip Industries tel tura a thlan an nih angin an zu tel.
  18. Government of Nagaland leh World Bamboo Organisation chuan ni September ni 16 a tanga ni 18, 2010 chhung awh chu Kisama Nagaland-ah WORLD BAMBOO DAY & North East International Bamboo Festival an huaihawt a, he hun hmang hian :-
    1. Pu S. Hiato, Hon'ble Minister of Industries
    2. Pu H. Zothangliana, Parliamentary Secy. Industries
    3. Pi R. Lalrodingi, Jt. Director, Industries
    4. Pu Chhuanawma, Functional Manager, Industries Department te leh



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Mizoram Chamber of Industries Member, Bamboo Sliver & Mat Weaving Unit, Darlak leh Pebble Mat Unit, E. Phaileng te leh Bamboo Development Agency official te an zu tel a, hlawk thlak an ti hle a. Kan Minister zahawm Pu S. Hiato chu Investment Meet, 17.9.2010 khan Guest of Honour niin thu a sawi bawk a ni.

19. Mi tinina chhawr theih tur chi, Lunglei High Powered Committee ruahmanna hnuai-a agarbatti stick siamna khawl 160 sem tura ruahman chu ruahman angin August ni 20, 2010 tlai lam dar 3:00 khan Saikuti Hall-ah Lungsen leh Leite khua amite hnenah semchhuah a ni a. Hemi semna hunah hian Minister zahawm Pu J.H.Roṭhuama te, Pu Zodintluanga te, meeting kaihruaitu Pu Joseph Lalhlimpuia, Vice Chairman, Lunglei High Powered Committee te, Parliamentary Secretary Pu S. Laldingliana te, M.L.A Pu T.T. Lalrinliana leh sorkar official tam tak te an tel a, agarbatti stick siamna khawl hi Minister, Parliamentary Secretary, M.L.A zahawm Pu J.H. Roṭhuama te Pu Zodintluanga te, Pu S. Laldingliana te, Pu T.T.Lalrinliana ten a dawng tur te hnenah an hlan a ni.

Hemi ni vek zinglam dar 10:00 aṭangin khawl dawngtu turte hnenah P & B Industry ten khawl hman dan training an pe a. Hralh tlak ngeia an siamchhuah theih nan L.Z. Bamboo Industry-in quality lam training an pe bawk a. Reilote chhunga Lunglei District aṭangin agarbatti stick tam tak siamchhuah beisei a ni.

He hun hlimawm tak hmannaah hian Pency, Bethsy, Lalzawmliana leh Baptist Choir te chuan zaiin an awi awllo bawk a, a nuamin a hahdamthlak hle.

20. District Bamboo Development Agency-a Chairman leh General Manager, DIC, Lunglei chuan August ni 26, 2010 khan Ṭhuampui leh a chhehvela Mau phun te a tlawh a, Chairman hi Member-Secretary, District Bamboo Development Agency, District Horticulture Officer leh Horticulture Department-a officer ten an ṭawiawm a; hemi hunah hian ruah nasa tak a sur avangin hmun kilkhawr leh hmun tam zawk tlawh thei lo mahse an tlawh chinah Mau phunte an nung ṭhain an ṭhan a ṭha hlawm a, lungawi thlak an ti hle. Khaw thenghawt deuhah chipchiar zawka Mau phunna hmun zawng zawng a tam thei ang ber tlawh kual turin ruahmanna an siam nghe nghe a ni. Heng Mau phunte hian vanduaina leh chhiatna hranpa an tawk a nih loh chuan kum rei lo te chhungin Lunglei District-ah Mau tam tawk tak thar chhuah theih ngei beisei a ni.

21. District Industries Centre, Lunglei chuan an district chhunga village hrang hrang profile siam turin hma an la mek a, Village Council zawng zawngah an huam chhunga chhungkaw awmzat leh thlai hrang hrang tharchhuahte, Mau hmun awm angte leh thing zai tlak leh tlak loh awmna ramngaw te zawtin lehkha an semchhuak vek a, tun dinhmunah hian 50% aia tamin chhanna an pe lut tawh a ni. He village questionnaires hi peih a nih

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hunah chuan Lunglei District Production Profile tha tak neih theih an in beisei.

22. Tun hnaia Bamboo Development Agency (BDA) leh N. Ranga Rao & Sons-in ziaka inremna an siam bawhzuina atan BDA chuan Haulawngah Hand Operated Square Stick Project bul an tan a. He project atan hian chhungkaw 25 thlang chhuakin square agarbatti stick siamna hmanrua leh tuldangte, ni 13.10.2010 khan semin training an pe nghal a. An hmanraw dawn hmang hian bul an tan a, an siamchhuah apiang BDA hian N. Ranga Rao & Sons hnenah an hralhsak thin dawn a ni.

## **S U N N A**

Pu Liankhuma, RIDC hnuiaia M.R thawk mek chu ni 12.9.2010 zan khan pumna avangin a thi a, a tuk ni 13.9.2010 chhun dar 12-ah Edenthah-ah vui a ni. A thawhpui ten kan ui hle.