



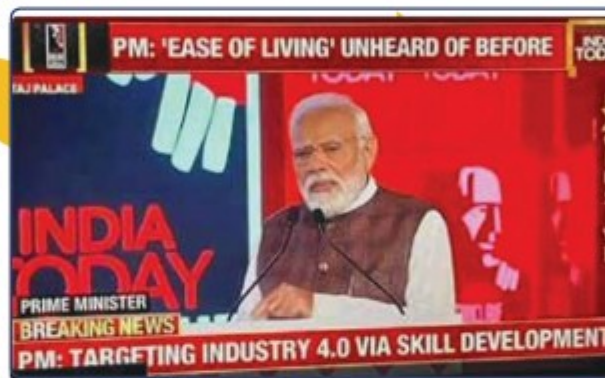
MINISTRY OF DEVELOPMENT OF
NORTH EASTERN REGION



Ka Prime Minister's
Development Initiative
Naka bynta ka North East
Region

Digital Design and 3D Printing Center of Excellence in the
Electronic Manufacturing Cluster (EMC) in collaboration with
other Government Agencies to be located at Tech City, Guwahati

Haka jingiaid ryngkat bad ka jingiohi shai jong u Prime Minister badonburom jong ngi baka India haka thupspah ba 21 kan lam shakhmat jong ka karkhana jingshna 4.0, ka Ministry of Development of North Eastern Region, Government of India (MDoNER) ha ka jingiatrei lang bad ka North Eastern Council (NEC) bad ka AMTRON kila sdang ban pyntreikam ia ki Digital Public Infrastructure naka bynta ki kor shon 3D. Kan long ha baroh ki jylla kiba don ha North East kum ka projek kaba la ai 100% naka pla jong ka sorkar kmie hapoh ka PM-DevINE.



Ka jingiakynduh jong ka North East bad ka kor 3D ka sdang ha ka 3 tarik u Nailar, 2022 da ka jingpyni ha ka ophis North Eastern Council Secretariat, Shillong ia ka rukom design ba long digital jong ki dkhot met ba kaikai ia ar ngut ki brierw kiba duna ki dkhot jong ka met na jylla Meghalaya. Kine ki lah ioh da ki 3D Printed Sockets / kjat ba kaikai bad mynta kine ki don ka jingim kaba ki tista ban ia id ban ieng bad ki long ruh kiba pyni nuksa ia ka "jingim ba suk" ia ki brierw kiba duna ki dkhot met.

Kane ka projek kan iarap ia ki samla jong ka NER ban ioh jinghikai ban shim ia ki kabu na ka Industry4.0. Kane kan iarap ia ki jingpynmih bad jingai jingshakri ha bynta jong ka koit ka khiah,ka jingsumar jong ka jingduna, karkhana umphniang bad gas, jingiarap ia ki MSME /ki start-ups / ki dukan jong ki trai ri, jingbha jong ki jaka Border sha ki jingpynmih jong ki tiar 3D lembad ki jingshakri ia ki ri ba marjan.. kan pynlong ia ka NER ban noh synniang ia ka bynta jong ka Vision Viksit Bharat @ 2047 ban pynlong ia ka r iIndia kaba khlain ha ka ioh ka kot.



ka karkhana 4.0 ka lah pynkylla ia ki rukom shna jong ki kompeni,pynbha bad sam ia ki mar jong ki. Ki nongshna ki lah ioh da ki tiar thymmai, kumjuh ia ka Internet of Things (IoT), ka kor 3D , cloud computing bad ki analytics,bad Artificial Intelligence (AI) bad Machine learning (ML) ha ki jaka pynmih tiar jong ki bad ha kiwei ki lain. Ka karkhana 4.0 ka ioh jingkyrshan na ki low latency bad kiwei ki jingmyntoi jong 5G enabled telecommunications. Ka kor 3D lem bad ka karkhana 4.0 kadei ka jingstad kaba bit bha (napdeng ki jingstad kiba dang mih) kaba pyniaid ia ka “La shna ha ri India” ha bun bah ki jingpyndonkam. Kan ailad ia ngi ban ialeh bad ka ioh ka kot jong ka pyrthei ha ka thup spah ba 21,kaba donkam ia ki nongtrei kiba lah shah hikai ia ka rukom pynmih tiar ba thymmai. Ka jingshon 3D ka dei ka pateng kaban sa wan ha ki karkhana shna jingshna bad ka lah ruh ban bujli ia ki rukom shna tiar barim ha bun ki bynta:

1 Ka Jing pyndonkam tiar ka dei kawei na ki bynta kiba donkam ha ka kor 3D

Ki bynta ba kan khmih bha ki long MSME Tooling / Agri Tooling / Rural bad ki dukan rit na ka bynta ki tiar ha karkhna.

2 Ka Koit ka Khiah / Jinghikai Jingsumar

Ka don ka jingiar ha ka jingpyndonkam jong ka kor 3D ha ka bynta jong ka lain medikal, la ka long ha ki jinghikai medikal (Anatomy, Forensics), ka jingpynkhreh shwa ban leh Surgery(GI/Cardiac/Nephrology, Neurology, Orthopedics bad ter ter.), jingsumar na bynta kaBrachytherapy Oral Cancer ,jingsumar na bynta TMJ Disorder , Digital Dentistry (ki jingpynbeit bniat,ki crown, bniat thung ter ter.),jingsumar na bynta ka Trauma Surgery , Reconstructive Surgeries ban shu jer khyndiat. Kumjuh ruh, ka don ka pateng ka shai na ka bynta ki tiar pyndait ne thung bad kiwei ki tiar medikal.

3 Ki jingsumar ia kiba don jingduna / Ki Rehabilitative Services.

4 Ka Riam ka beit bad ka jing design ia ki tiar nuksa ha karkhana

Ki tiar fashon, ki juti, design jong ki jingdeng, design jong ki shuki, ki tiar ai sngewbha ter ter.

5 Ki Jinghikai Technical

Ka jingpynthymmai iaka rukom trei jong ki nongtrei karkhana ha ka karkhana 4.0 lyngba ki Industrial Training Institutes / Polytechnics, kolej Engineering ter ter.

6 Ka Reverse Engineering

Ka Reverse Engineering jong ki spare part ba rem, tiarba shna na bynta ki shimet /ki tiar mashin ba rem, jingbujli jong kine ki spare ha kaba ka OEM kam don jingpynmih shuh ter ter.

KI PHANG IONGKA PROJECT

Ka jingpynbha ha ka jinghikai Technical da kaba pynbna,pynsngewthuh, ki MOOC Courses,jingpyndonkam ki Case labs hapdeng ki samla jong ka North Eastern Region jong ka Digital Designing bad jingshon 3D lyngba ki karkhana ba kyrshan ia ka AMTRON –Academia Partnerships.

Ban ai ki jaka ba la shna kyrpang ban pynbha ia ka rukom trei ki samla bad hikai shuh ia kito kiba la trei ne donkam jinghikai thymmai ban shakri kham bha ia ki karkhana khnang ban kynduh ia ki jingdonkam jong ka karkhana 4.0.

Pyniaid ia ki jingshna ba shna ha ri India ban pynduna ia ki mar ba wan nabar / pynkhlain ia ka iew ba die tiar shabar ri ia ki tiar ba shna na ka kor 3D khamtamha ka koitka khiah / jingsumar ia kiba don jingduna / karkhana umphniang bad gas.

Ai jingiarap ban pynlong iaka NER ka Growth Engine jong ka Multi Trillion Dollar Indian Economy India @ 2047 under Viksit Bharat Sanakalp - pyniaid ia ka Karkhana 4.0. hapoh North East ban ai bynta sha ka India Vision @ 2047.

Ka jingtah ha ka SDG 2030 Parameters ia ka North East

1 SDG 3 – Ka Koit ka Khiah bad ka Jinglong jingman

Ki tiar kiba la pynkhreh bha kin pyniaid ia ka jingim ba suk / jingleh Business ba suk:

- Jingsumar - pynduna ia ka jinglut, pynduna ia ka bai lut por ba sumar, pynbha ha ka rukom ai jinghikai shaphang ka koit ka khiah.
- Divyang - ka jingleh Business kaba suk bad iarap ia ki ban im ka jingim kaba suk bad ban ioh bynta ha ka ioh ka kot.

2 SDG 4 – Ka Jinghikai ba kham bha

Jinghikai ba kham bha na ka bynta ki samla/ ki Professional / ki Entrepreneurs naNorth East.

3 SDG 5 – Ka Gender Equality

Jinghikai ia ki kynthei ha ka jingshon dur 3D hi ki kam ba khaii / kren halor ka jingpher ka rukom trei ha karkhana 4.0.

4 SDG 9 – Ka Industry, ka Innovation & ka Infrastructure

Pyniaid R & D ia ki tiar thymmai bad ki jingpyniar na ki traditional agro / karkhana ba dei jong ka mining ha NER. Jingkyrshna ia ki MSME, dukan riewshimet hapoh ki jylla kiba hap ha north east kiba dang duna haba nujor bad kiwei ki bynta jong ka ri India.

5 SDG 9 – Punduna ia ki jingbym long kumjuh/ryngkat

Ka projek kan pynduna ia ka jingiar jong ka jingiapher hapdeng ka jingioh bynta jong ka jingpule, koit ka khiah, rukom ban leh khaii hapdeng ki brieve jong ka NER hapoh ka Digital Design bad ki case kiba hap hapoh ka kor 3D .

6 SDG 12 – Ka Jingkitkhleih ia ka rukom bam & ka rukom Pynmih

Pynduna ha ka jingpynmih jakhlia haba ia nujor bad kiwei pat ki rukom pynmih.

Ka Workshop - Ki Skul Hikai ha NER

1. Sarthebari Jatiya Bidyalaya, Barpeta
2. Sarukhetri High School, Sarthebari, Barpeta
3. Sarthebari Girl's High School, Sarthebari, Barpeta
4. Smart Computer Education, Sathebari, Barpeta
5. Banchit Choudhury Sankardev Shishu Niketan Sarthebari, Barpeta
6. Sarukhetry Jatiya Vidyalaya, Barkapala, Barpeta
7. Babujee College, Sarukhetri, Barpeta
8. Sarthebari H.S. School, Sarthebari, Barpeta
9. Jnyandeep Anchalik Senior Secondary School, Barghopa, Barpeta
10. B.R. Milan High School, Rauli, Vill. Bhakuatepa, Barpeta

1

ASSAM



17. Digboi Collage, Tinsukia

Tinsukia



18. NIT Silchar, Assam
19. Assam University, Silchar
20. Department of ETC Engg. Silchar Polytechnic, Assam

Nalbari

Barpeta

সৰ্থেবৰী
ছোৱালী হাইস্কুল
থ্ৰী ডি প্ৰিটিঙৰ
কৰ্মশালা

প্ৰতিদিন সন্ধা, সৰ্থেবৰী, ১৭ মাৰ্চ
এ এম টি এম উদ্যোগত আন
সৰ্থেবৰী ছোৱালী হাইস্কুলৰ
সাৰথোকাৰ ১৬ মাৰ্চত সৰ্থেবৰী
ছোৱালী হাইস্কুলত থ্ৰী ডি প্ৰিটিঙৰ
একা কৰ্মশালা অনুষ্ঠিত হ'ল।
কৰ্মশালাত সৰ্থেবৰী ছোৱালী
হাইস্কুলৰে ধৰি আফগানিস্তানৰ ১০ জন
শুলাৰ ২৪০ বছৰীয়া ছাত্ৰ-ছাত্ৰীয়ে
আংশগ্ৰহণ কৰে। অনুষ্ঠিতকালত
পুৰুষীন্দৰ বিজয় আফগানিয়ে ছাত্ৰ-
ছাত্ৰীসকলক ইয়াৰ এক সন্তান
পেয়াৰ লগতে অনুষ্ঠিতকালত প্ৰতি
ছাত্ৰ-ছাত্ৰীক আকৰ্ষিত কৰা
কৰ্মশালাখনৰ মূল উদ্দেশ্য।
কৰ্মশালাৰ ছাত্ৰ-ছাত্ৰীক থ্ৰী ডি
প্ৰিটিঙৰ প্ৰশিক্ষণ নিজে এম টি এম
উদ্যোগত কৰাৰে।

Kamrup Metro

Cachar

11. Balabhavan Vidyapith High School, Sariahtali, Nalbari
12. Swami Paramanda Girl's High School, Sariahtali, Nalbari
13. ITI, Nalbari
14. Prabhati Bishnujyoti Self Help Group, Milanpur, Nalbari

15. ITI Women College,
Kamrup Metro, Guwahati
16. Girijanand Chowdhury University,
Kamrup Metro, Guwahati





MIZORAM



Serchhip District

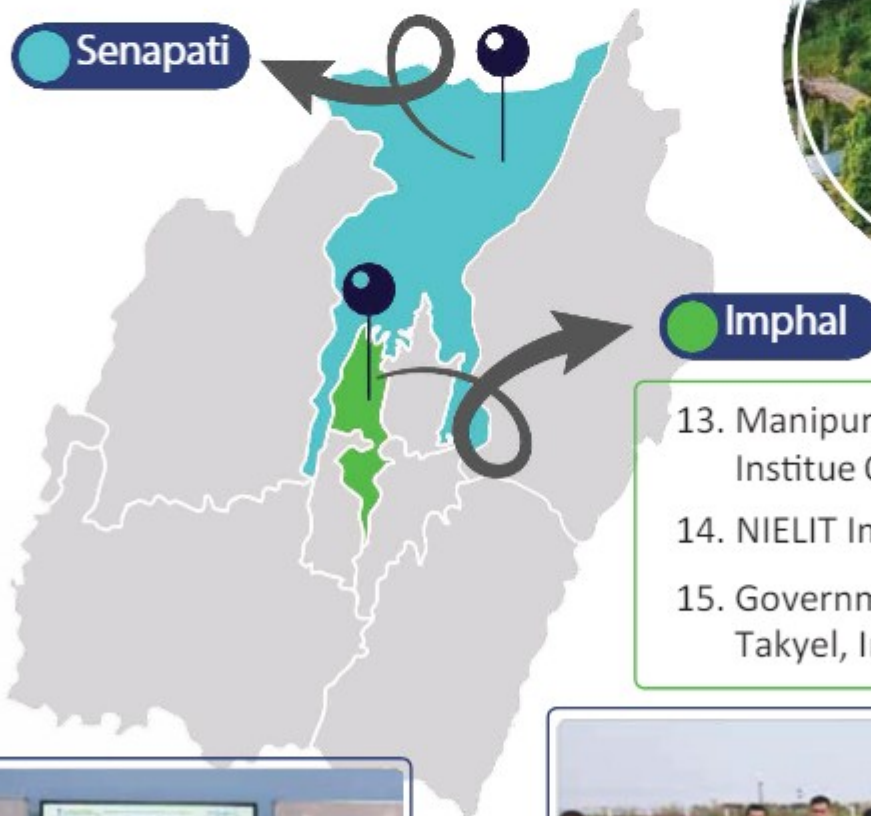
1. District Institute Of Education & Training, Serchhip
2. Government Serchhip College, Serchhip
3. Government Serchhip Higher Secondary School, Serchhip
4. Eklavya Model Residential School, Serchhip



3

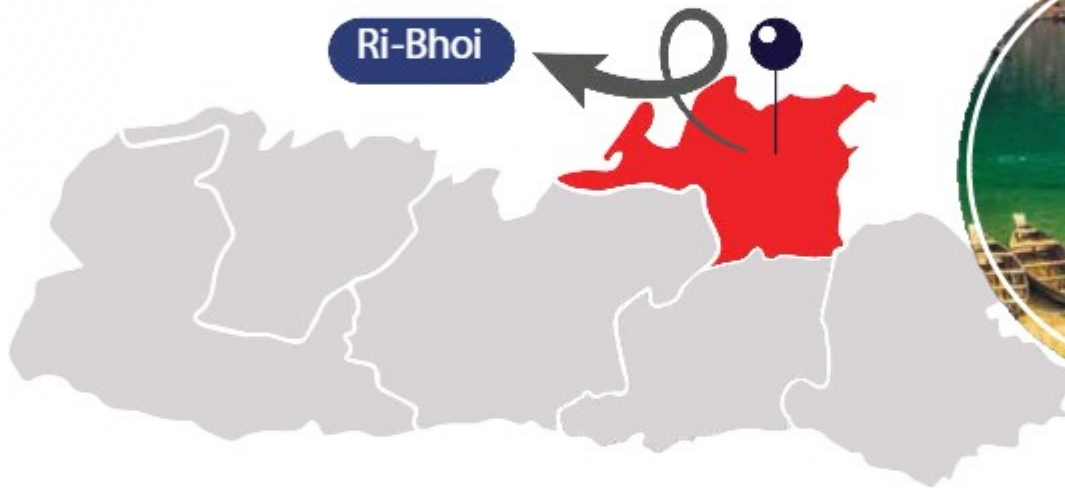
MANIPUR

1. ISÜPHI Education Center, Chisari, Chowainamei, Senapati
2. Sardar Patel High School, Senapati
3. St. Xavier's School, Makhan, Senapati
4. ST Joseph's H.R School, Tadubi, Senapati
5. Mount Gibeon Higher Secondary School, Tadubi, Senapati
6. Nazareth Residential School, Mao Gate, Senapati
7. Okai Academy, Mao Gate, Senapati
8. St Joseph High School, Lower Shajouba, Tadubi, Senapati
9. Asufii Christian School, Punanamei, Mao Gate, Senapati
10. Don Bosco Hr. Sec. School, Mao Gate, Senapati
11. Sophia English School, Punanamei, Mao, Senapati
12. Asufii Christian Institute, Punanamei, Mao, Senapati



13. Manipur University and Manipur Institute Of Technology, Takyelpat
14. NIELIT Imphal, Akampat
15. Government Polytechnic, Takyel, Imphal





1. Alpha English Higher Secondary School, Pahamsyiem, Nongpoh, Ri-Bhoi
2. Savio Secondary School, Nongpoh, Ri-Bhoi
3. Nomiwell Memorial Secondary School, Nongpoh, Ri-Bhoi
4. Saiden RMSA Secondary School, Saiden, Ri-Bhoi
5. Ri-Bhoi Presbyterian Synod English Secondary School, Pahamlapong, Nongpo, Ri-Bhoi
6. Umsning Presbyterian Higher Secondary School, Umsning, Ri-Bhoi
7. Nongthymmai Presbyterian Sec. School, Umsning, Ri-Bhoi
8. Gorkha Pathsala Secondary School, Umsning, Ri-Bhoi
9. Balawan College, Umsning, Ri-Bhoi
10. Sati Raja Memorial Sec. School, Umsning, Ri-Bhoi
11. Eden Academy Sec. School, Umsning, Ri-Bhoi
12. St. Michael Higher Sec. School, Umsning, Ri-Bhoi
13. Umsning Town Durvar Sec. School, Umsning, Ri-Bhoi

5

ARUNACHAL PRADESH

1. College Of Agriculture, Pasighat, East Siang
2. Arunachal Pradesh University, Pasighat, East Siang
3. Govt. HR. Sec. School, Borguli, East Siang
4. IGJ Govt. HR. Sec. School, East Siang
5. Pasighat Sigma Institute Pvt. Ltd., East Siang
6. Govt. HR. Sec. School MEBO, East Siang
7. D.E.M Govt. HR. Sec. School, Pasighat, East Siang
8. Government Polytechnic Pasighat, East Siang
9. Govt. HR. Sec. School, Ruksin, East Siang
10. College Of Horticulture / College Of Forestry, Pasighat, East Siang



11. Govt. HR. Sec. School Marvang, Upper Siang
12. Govt. H.S. School, Yingkiong, Upper Siang



13. Govt. HR. Sec. School, BolengSiang



14. Govt. HR. Sec. School, Sille



15. North Eastern Regional Institute Of Science And Technology (NERIST), Arunachal Pradesh



6

NAGALAND



Dimapur



1. Pranabananda Women's College, Dimapur
2. Nagaland Tool Room & Trg. Center, Dimapur
3. Holy Cross HR. Sec. School, Dimapur
4. Government High School Lengrijan, Dimapur
5. Immanuel Collage, Lengrijan, Dimapur
6. Christian Higher Sec. School



7

SIKKIM

1. Govt. Sec. School Melli Aching , Gyalshing, West Sikkim
2. Government Yuksam SR. Sec. School, Gyalshing, West Sikkim
3. Dentam SE. Sec. School
4. Khechupari Govt. SR. Sec. School
5. Vocational College Dentam
6. Govt. Junior High School Chingthang
7. P.R. Lama Govt. SR. Sec. Sec. School Yangsum, West Sikkim
8. Govt. SR. Sec. School Darap, Gyalshing
9. Govt. Sec. School Central Martam, Gyalshing
10. Govt. Junior High School, Onchung, Gyalshing
11. Govt. Sec. School Rinbik Gyakshing
12. Govt. SR. Sec. School Pelling, Gyalshing
13. District Institute Of Education And Training (DIET)
14. Govt. Sec. School Middel-Gyalshing
15. Govt. Girl's SR. Sec. School, Kyongsha, Gyalshing
16. Govt. SR. Sec. School Legship, Gyalshing
17. Industrial Training Institute, Gyalshing

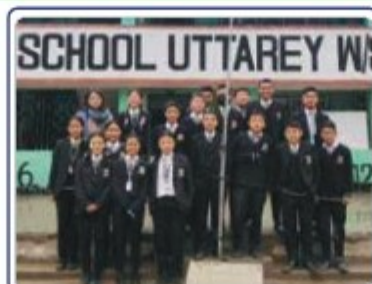


West Sikkim



Pakyong

18. Sikkim Manipal Institute Of Technology, Sikkim Manipal University
19. Government SR. Sec. School, Uttarey, West Sikkim
20. Govt. Senior Secondary School Sakyong, Gyalshing



TRIPURA

1. Bir Bikram Memorial College, Agartala
2. Maharaja Bir Bikram College, Agartala
3. Women's Collage, Agartala
4. Bhavan's Tripura College Of Science & Technology, Anandnagar
5. Tripura University, Suryamaninagar
6. Techno College Of Engineering, Agartala
7. Bharat Pharmaceutical Technology, Amtali, Agartala
8. National Institue Of Electronics & Information Technology (NIELIT), Agartala
9. Ramthakur College, Agartala
10. TTAADC Poytechnic Institue, Khumulwng



Agartala



Ka Workshop – Ki Healthcare Institutions ha NER

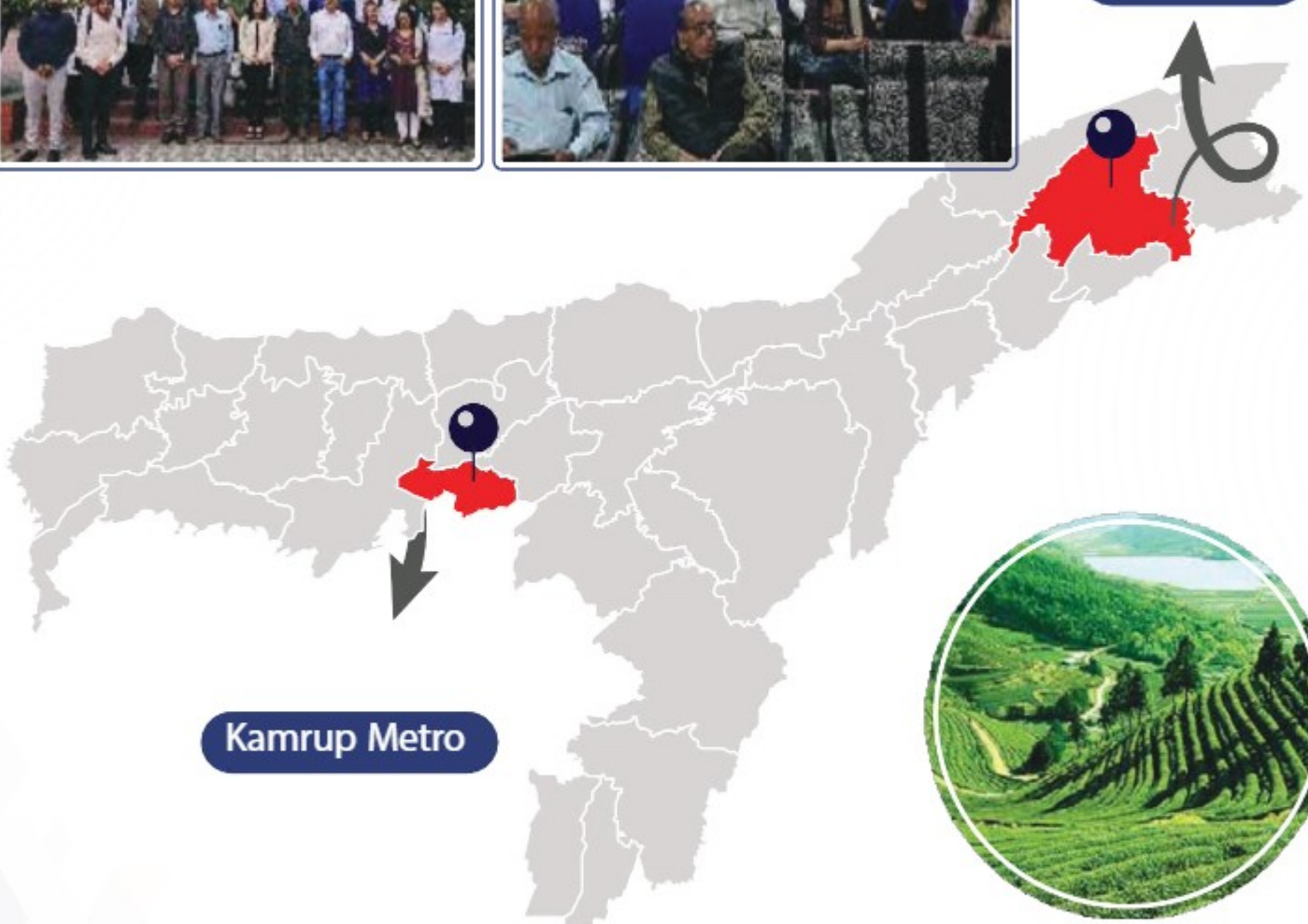


ASSAM

Assam Medical College, Dibrugarh along with Institute of Paramedical Sciences under AMC, Dibrugarh and BSC Nursing College, Dibrugarh



Dibrugarh



Kamrup Metro



Regional College of Nursing, Indrapur, Guwahati





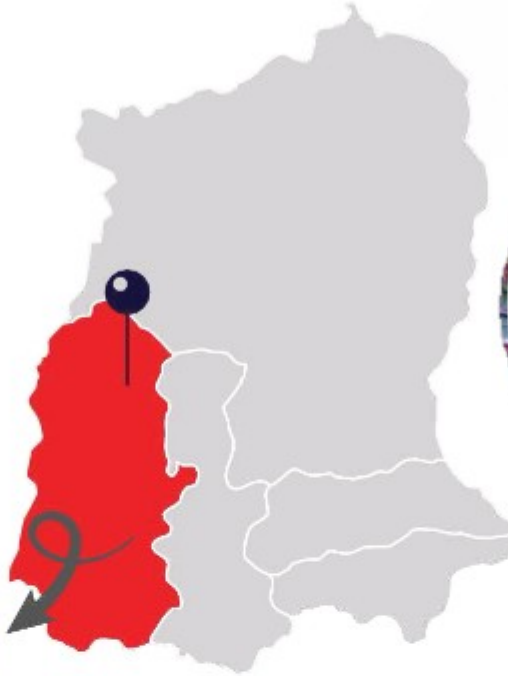
MIZORAM



Serchhip District

District Hospital, Serchhip





West Sikkim District

District Hospital, Gyalshing





NAGALAND



Naga Hospital Authority, Kohima



5

ARUNACHAL PRADESH



Papumpare District

Abotani Dental Clinic with members of Arunachal Pradesh
State Dental Council, Itanagar



Agartala



Tripura State Red Cross Society, Agartala



MANIPUR

Workshop on use of digital designing tools held

RIMS observes Oral Health Day, holds health camp

The Department of Physical Medicine and Rehabilitation (PMR), Regional Institute of Medical Sciences (RIMS) organised a workshop on 'Use of Digital Designing Tools and 3D Printing to provide custom designed prosthetics and orthotics devices to patients in need' at RIMS Seminar Hall today.

The workshop was conducted under the project awarded to AMTRON, a PSU of Assam Government, by the Ministry of DoNER, Government of India.

It was attended by a diverse mix of medical professionals such as junior residents, senior residents, assistant professors, and professors from both PMR and sports medicine specialties.

RIMS Director, Prof. G. Sunil Kumar Sharma and Dr. L. Nilachandra Singh, Head of

Workshop organised at RIMS
IMPHAL, Mar 28

Department of PMR also grand the workshop.

The workshop commenced with a detailed demonstration of below knee amputation scanning, followed by the conversion of raw images into precise 3D models using advanced software.

Participants actively engaged in post-processing design work, refining 3D models to determine optimal pressure distribution for prostheses, thereby enhancing comfort and functionality.

This modern approach represents a significant advancement over traditional techniques since the digital designing is much faster and the products are more comfortable for beneficiaries.

Additionally, all attendees were provided with hands-on experience, allowing them to directly manipulate and interact with the 3D models.



Imphal West District



Regional Institute Of Medical Sciences, Imphal



West Garo Hills District



District Hospital, Baghmara



3D Printing Centre of Excellence,
Tech City,
Assam Electronics Development Corporation Limited (AMTRON),
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