



REPORT

Specialized Training on the Application of Modern Tools and Techniques in Forestry

7 to 13 November 2022

Assam Forest Guard School,
Makum, Tinsukia, Assam



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1. Acknowledgement

Training is one of the important aspects for the knowledge and skill upgradation of the staff to carry out their functions effectively towards achieving the aspired targets to reach the broader goals of the organization. Assam Forest Guard School has a broader goal to train the Forest Guards and other field-implementing units with the skills necessary to address issues of conservation and protection of forestry and wildlife. The training has helped the Forest Guards to get acquainted with Modern tools and technologies, their relevance in the field of conservation along with the recent developments important to the sector.

We would like to sincerely thank the APFBC project, supported by AFD-India (Agence Française de Développement), for their guidance and for the funding to hold the training program on Specialized Training on the Application of Modern Tools and Techniques in Forestry and providing the needed fund from APFBC project.

Moreover, we would like to express our gratitude to Shri K.S.P.V. Pavan Kumar, IFS, Additional Principal Chief Conservator of Forests, Biodiversity, and Climate Change, as well as Project Director-Project Management Unit (PD-PMU), Assam Project on Forest and Biodiversity Conservation (APFBC) Society, for his direction, support, and guidance that helped the training program be completed successfully.

The accomplishment of this training would not have been possible without the regular guidance, suggestion, and direction of Dr. Sonali Ghosh, Chief Conservator of Forests -Research, Education and Working Plan (REWP) Division. We offer our gratitude for her kind support and input.

Additionally, we would like to express our thanks to all the faculty members, including Mr. M.K. Goswami, DFO, Govt. T.T. & S. Plant, Makum, Ms. Papor Khatoniar, F.R., Dibrugarh Division, Ms. Kasturi Sule, IFS, ACF, Digboi Division, Mr. M.C. Phukon, F.R.(Retd.), and Mr. P. Sharma, F.R. (Retd.). Mr. Mayurakshya Bharadwaj, F.R., AFGS, Makum, Mr. M.P. Bania, Fr-I, AFGS, Makum, Mr. Gyan Sharma, Institutional Development Specialist, APFBC, Mr. Jiten Goswami, Deputy Ranger, AFGS, Makum, and all other personnel who were directly or indirectly involved with the training sessions.

Further, we would like to express our gratitude to Director, Assam Forest School, Jalukbari and his team for providing the necessary communication to spread the word about our program via Twitter.

We would like to express our appreciation to all the AFGS staff and other members for their assistance and cooperation during the training process.

Superintendent,
Assam Forest Guard School,
Makum, Tinsukia, Assam

2. Background

The employee in the organization is accountable for a variety of duties and obligations, which might vary from simple chores to complicated operations. As a result, every employee needs to understand the organization's goals, culture, and operational processes via-a-vis their job descriptions, and responsibilities. Some of the obligations assigned to the individual may even necessitate the usage of specialized talents. In addition, the employees must have the correct mindset to carry out their responsibilities.

Organizations must make provisions to educate, develop and enhance the skills of their employees through various training programs. The Assam Forest Guard School aims to provide Forest Guards, foresters, and other employees with the necessary skills to address issues of conservation and protection of forests and wildlife.

The Assam Forest Guard School was established in 1980 and is situated in the industrial city of Makum, Tinsukia, Assam. The goal of this training school is to provide training to the front-line employees of the forest department. Since its inception, the school has trained about 2,889 Forest Guards and Game Watchers. The Research Education and Working Plans (REWP) Division, Forest Department of Assam oversees the administrative functions of the Forest Training Institutes, whereas the Superintendent oversees the Assam Forest Guards School. The Assam Forest Guard School runs a number of specialized training programs as and when required. Specialized training in the application of modern tools and techniques in forestry was conducted recently from 7th to 13th November 2022. The training report is prepared to explain the details of the training program conducted.

3. Specialized training in the Application of Modern Tools and Techniques in Forestry

The Assam Forest Guards School in Makum conducted specialized training on the use of contemporary and modern tools and techniques in forestry (4th batch) from 7th to 13th November 2022, for the Forest Guards and Game Watchers. A total of 17 forest guards/game watchers participated in the above-said training program. The funding for this training was sourced from the APFBC Phase II.

The main objectives of this training were:

- Awareness on issues and challenges pertaining to the conservation of forests and wildlife
- Sensitize on the recent technological interventions, use of technology
- Hands-on experience with applications of modern tools and techniques

The training included lecture sessions from the senior forest officials of the department having extensive knowledge and experience in forestry-related topics and practical know-how. The training included an overview of forest policy and law, contemporary forestry instruments, Global Positioning System (GPS), computer applications, knowledge of digital callipers, weather meters, and the importance of drone technology for aerial surveillance, among others.

For hands-on experience in GPS application training, the participants visited Lakhpathar Range in Digboi Division. On their way to the Margherita East Range Office, the trainees also stopped by the Coal India Museum. The participants learned how to seize stumps, logs, and other hammer imprints. As part of the

field trip, visit to the Govt. T. T. & S. Plant Division was also conducted. The detailed day-wise session of the training program is presented in this report. The training module for specialized training is placed in Annexure - 1 for reference.

4. Participants in the training

16 participants (Forest Guards: 15 and Game Watchers: 2) from 14 divisions participated in the training program (the list of participants is placed in Annexure II for reference).

5. Resource Persons' Profile

The resource person's team comprised departmental experts, retired foresters, and an APFBC project representative. Given below is a brief description of the resource persons along with the sessions conducted by them (See Annexure - 1 for Module for Specialized Training).

Table 1: Resource person profile

Sl. No	Name of the Facilitator	Designation	Session Title
	Registration		
1	Mr. Saidul Alam	Superintendent, Assam Forest Guards School, Makum	Welcoming the participants and Inaugural session Group discussion and feedback
2	Mr. M. K. Goswami	DFO, Govt. T.T. & S. Plant, Makum	Introductory session – basic knowledge of modern tools and their importance in forestry Forest Conservation Act 1980/Minor Mineral Concession Rule 2013
3	Mr. Mayurakshya Bharadwaj	F.R., AFGS, Makum	Practical session: working with GPS at Lakhpathar RF under Digboi Division
4	Ms. Paporri Khatoniar	F.R., Dibrugarh Division	Brief knowledge of digital calliper and weather-meter Field Practical: working with the digital callipers, weather meter, and GPS at Dihing Patkai National Park (supported by Mr. Mayurakshya Bharadwaj)
5	Mr. Gyan Sharma	Institutional Developmental Specialist, APFBC	Team Building and Motivation
6	Ms. Kasturi Sule	IFS, ACF, Digboi Division	Computer application and downloading of data from GPS to PC Brief knowledge of Densiometer

Sl. No	Name of the Facilitator	Designation	Session Title
			Importance of drone technology in terms of aerial surveillance of forest areas and demonstration
			Field visits and training on the operation of drones.
			A brief session on routine maintenance of modern tools to increase their lifespan
7	Mr. Jiten Goswami	Deputy Ranger, AFGS, Makum	Field practical working with GPS and Densimeter at Charaipung Range under Digboi Division (supported by Mr. Mayurakshya Bharadwaj)
8	Mr. M. C. Phukon	Forest Ranger (Retd.)	Role play on implementation of Forest Law along with case study
			Field visit to Dhola-Sadiya to study riverine ecological succession
9	Mr. P Sharma	Forest Ranger (Retd.)	Wildlife Protection Act 1972
10	Mr. M. P. Bania	Fr-I, AFGS, Makum	Field visit to Kherjan beat office for learning seizure procedure of stumps, logs & various hammers and enroute visit to Digboi museum (supported by Mr. Rekitabuddin Ahmed, Deputy Ranger, Digboi Range)
			Computer application and downloading of data from GPS to PC.
	Valedictory function		

6. Venue and Date

The training was organized at Assam Forest Guards' School, Makum from 31st October to 06th November 2022.

7. Training methodologies

The following training methodologies were used in the training program:

- Lecture and group discussions
- Group exercises and group assignments
- Individual exercises
- Powerpoint presentation

8. Proceedings

The day-wise proceedings of the training are mentioned below

Day 1: 07 November 2022

Session I: Registration of Trainees and Inaugural Session

The inaugural session began with the registration of the trainees, handing over the reading materials and the welcome kit.



Picture 1: Registration and welcoming of trainees

Session II: Computer application and downloading of data from GPS to PC

Resource Person: Mr. M.P. Bania, Fr-I, AFGS, Makum



Picture 1: Computer Application

The different computer components, their functions, as well as the use of computer applications in general and in the forestry sector, in particular, were covered in the session. The participants were also shown how

to use GPS and mobile-based apps to capture and record the tracks and footprints of the places they patrol and transmit the data to the computer.

Key takeaways from the session:

- Learning and understanding different computer components and their functions
- Using computers in the forestry industry
- Using GPS and mobile-based location monitoring and tracking applications

Session III: Motivation for Forest Guard and Game watcher

Resource Person: Mr. Gyan Sharma, APFBC



Picture 2: Motivation and Team Building

The session covered soft skill aspects such as understanding self through the Johari Window, Problem-solving mechanisms and needs, characteristics of the team, and team building in the forestry sector.

Key takeaways from the session:

- Need to understand self to better understand others.
- Importance of out of the box thinking in problem-solving aspects
- Understanding team, and team building process
- Role of team building in the forestry sector

Day 2: 08 November 2022

Session I: Introductory Class on Modern Tools & importance in forestry. Basic knowledge of the application of GPS

Resource Person: Mr. M.K. Goswami, DFO, Govt. T.T. & S. Plant, Makum

The participants were introduced to the recent technological advancement and cutting-edge modern tools and equipment utilized in the fields of forestry and wildlife conservation, during this session. Additionally, they received a fundamental and theoretical explanation of the utilization of GPS.



Picture 3: Introductory session on Modern Tools

Key takeaways from the session:

- Relevance of modern tools and techniques in present-day forestry
- Their use and maintenance.

Session II: Forest Conservation Act 1980/Minor Mineral Concession Rule-2013

Resource Person: Mr. M.K. Goswami, DFO, Govt. T.T. & S. Plant, Makum.

The trainees were given a brief overview of the Forest Conservation Act of 1980 act throughout the session on how the act helped to safeguard the forest, together with its flora, wildlife, and other various biological components, while conserving and preserving the integrity and territory of the woods.

Key takeaways from the session:

- Roles of the central government, state government, and other authorities to take any decisions related to forestry
- Penalties in case of violations and other related aspects



Picture 5: Session on Forest Conservation Act 1980

Session III: Field visit to Forest Range Office, Margherita East under Digboi Division and enroute visit to Coal India Ltd Museum

Resource Person: P Sharma, Deputy Ranger, i/c RFO, Margherita East Range, Angshuman Bhuyan, F.R., AFGS, Makum and Mayurakshya Bharadwaj, F.R., AFGS, Makum

The i/c RFO briefly explained on the history, area, staff strength and infrastructure. The participants learnt on the various activities currently undertaken at the range office. Various hammers were shown and there use discussed; procedure for seizure of logs/ sawn timbers were also described.



Picture 6: Field visit to Margherita East Range under Digboi Division

Key takeaways from the session:

- Key activities undertaken at a Range
- Use of various hammer impressions
- Procedure for seizure of log/sawn timbers
- History and operation of the Margherita coalfields.

Day 3: 09 November 2022

Session I: Importance of Drone technology in terms of aerial surveillance of Forest areas & demonstration

Resource Person: Ms. Kasturi Sule, IFS, ACF, Digboi Division



Picture 7: Importance of Drone technology

The different drone components, including rotors, propellers, and frames, were taught to the trainees. The launch, navigation, and landing of the drone using remote controllers were shown. Different types of drones were also discussed. A briefing on the different applications of a drone, including search and rescue, surveillance, weather monitoring, firefighting, drone-based photography, videography, etc. was also taught to the trainees.

Key takeaways from the session:

- Learning about the parts of drone & their uses
- Application of drones in the Forestry sector
- Hands-on experience in using remote controls to launch, navigate and land the drone

Session II: Downloading of data from GPS to PC. Brief knowledge of Densimeter

Resource Person: Ms. Kasturi Sule, IFS, ACF, Digboi Division



Picture 8: Downloading of data from GPS to PC

This session covered the various components of computers, their functions, and the use of computers in general and forestry in particular. The trainees were also shown how to use GPS and mobile applications to record the locations they patrol and then download the information to a PC. A brief knowledge of Densimeter was also provided to the trainees to make them understand how to calculate the percentage of canopy cover

Key takeaways from the session:

- Learning about the parts of a computer & their uses
- Application of computers in the Forestry sector
- Use of GPS and mobile-based location-tracking apps
- Canopy cover

Session II: Field demonstration and training on the Operation of Drones.

Resource Person: Ms. Kasturi Sule, IFS, ACF, Digboi Division.

The launch, navigation, and landing of the drone using remote controllers were demonstrated. A briefing on the different applications of a drone, including search and rescue, surveillance, weather monitoring, firefighting, drone-based photography, videography, etc. was also given to the trainees.

Key takeaways from the session:

- Learning about the parts of a drone & their uses
- Application of drones in the Forestry sector
- Hands-on experience in using remote controls to launch, navigate and land the drone



Picture 9: Hands on experience of Drone technology

Day 4: 10 November 2022

Session I: Role Play on implementation of Forest Law

Resource Person: Mr. Mayurakshya Bharadwaj, F.R., AFGS, Makum

The trainees received an introduction to the various laws governing and related to forest conservation and protection in the session, along with details of their key provisions and case studies.

Key takeaways from the session:

- Knowledge of the various laws pertaining to forests
- Key sections and practical applications of the laws during relevant situations
- Case studies and real-life scenarios to help trainees learn how to apply forest rules



Picture 10: Role play on implementation of forest law

Session II: Role Play on implementation of Forest Law along with Case study

Resource Person: Mr. Mayurakshya Bharadwaj, F.R., AFGS, Makum

The various laws governing forests were explained to the trainees in this session, along with their key provisions and different real-life case studies.

Key takeaways from the session:

- Learning various laws governing forests.
- Important sections and how to apply them in relevant situations.
- Case studies and stimulating real-life scenarios for a better understanding of the application of forest laws.



Picture 11: Case study discussion on Forest Law

Session III: Field Visit to Govt. T. T. & S. Plant Division, Makum and session on GPS Application

Resource Person: Mayurakshya Bharadwaj, Forest Ranger, AFGS, Makum, and Mr. Manoj Kumar Gogoi, Fr-I, AFGS, Makum



Picture 12: Field visit to Govt. T. T. & S. Plant Division, Makum

The history and past operation of Govt. T. T. & S. Plant Division were discussed. The importance of Timber treatment and seasoning was described. The trainees were told to use GPS and mobile applications to record the footprints/ tracks of the regions they patrol and to send the data to a PC.

Key takeaways from the session:

- History of Govt. T. T. & S. Plant. Importance of Timber treatment and seasoning.
- Using GPS and mobile-based location monitoring applications
- The significance of these tools and technology in forestry

Day 5: 11 November 2022

Session I & II: Wildlife Protection Act 1972

Resource Person: Mr. P Sharma, F.R. (Retd.).



Picture 13: Discussion on Wildlife Protection Act 1972

The objective of safeguarding the many varieties of flora and animals (across the country) was explained to the trainees. They were instructed on the many definitions provided by the Act, including those for hunting, trophies, animal articles, etc. They were instructed on the process followed for the declaration of any National Parks and Wildlife Sanctuaries in accordance with this act, as well as the accompanying penalties, for any offenses.

Key takeaways from the session:

- Important definitions as per the act.
- Provisions on Prohibition of hunting.
- Declaration and Protection of Wildlife Sanctuaries and National Parks.
- Constitution of Various Bodies
- Schedules under the Act

Session III: Field Practical: Working with Digital calliper, Weather meter, and GPS at Lakhpathar Range under Digboi Division.

Resource Person: Papori Khatoniar, F.R., Dibrugarh Division



Picture 14: Field visit at Digboi Museum

The participants used callipers to measure the diameter of trees at breast height. Both the traditional tree callipers and the digital calliper's accuracy were evaluated. The appropriate and hands-on operation and upkeep of the equipment were experienced by the trainees.

Key takeaways from the session:

- Proper handling, maintenance, and usage of the equipment
- Discussion of several measurement units
- Taking precise measurements of a tree's diameter at breast height

Day 6: 12 November 2022

Session I: Mobile applications and GPS

Resource Person: Mr. Manash Prateem Bania, Fr-I, AFGS, Makum.



Picture 15: Mobile Application and GPS

The different mobile applications that can be used in forest areas were discussed. The trainees learnt the use of applications such as GAIA for mobile tracking, QR and Barcode scanner, taking Geotagged photographs and various other such applications.

Key takeaways from the session:

- Learning about the various mobile applications.
- Procedure to take mobile tracking
- Hands-on experience in using apps such as GAIA, QR and Barcode scanner, etc.

Session II: Biodiversity Management.

Resource Person: Mrs. Rinimoni Saikia, Fr-I, AFGS, Makum.

The protection and management of biodiversity to obtain resources for sustainable development were discussed. Various methods of Biodiversity conservation such as in-situ and ex-situ conservation and other such strategies were discussed.

Key takeaways from the session:

- To preserve the diversity of species.
- Sustainable utilization of species and ecosystem.
- To maintain life-supporting systems and essential ecological processes.



Picture 16: Biodiversity Management

Session III: Field demonstration of Mobile based use of GPS and tracking methods

Resource Person: Mr. Manash Prateem Bania, Fr-I, AFGS, Makum.

The trainees were given hands-on experience in the use of GPS in the field for collecting waypoints and tracks using Mobile based applications in this session.



Picture 17: Field demonstration of Mobile based applications

Key takeaways from the session:

- Recording a location's latitude and longitude using Mobile GPS.
- Making route-specific tracks using Mobile GPS.
- Using GPS to arrive at a predetermined point using Mobile GPS.

Day 7: 13 November 2022

Session I & II: Group Discussion and feedback

The session was held to understand the group’s understanding of different sessions and their usefulness in their daily chores of work-life, and how the training program has helped them to evolve and work more efficiently. It was followed by the gathering of feedback from the participants



Picture 18: Group discussion session with the participants

Session III: Valedictory function.

Chief Guest: Mr. Saidul Alam, Superintendent, AFGS, Makum.

The session was concluded with a closing ceremony speech by the Chief Guest of the training session followed by certificate distribution to the participants of the training.



Picture 19: Group discussion session with the participants

9. Other Activities

Every morning, PT sessions were conducted to maintain the physical fitness of the trainees.



Picture 20: P.T. sessions



Picture 21: Trainees having lunch in hostel mess

10. Feedback of Trainees

The trainees were instructed to complete the feedback form questions on a scale of 1-3, with 1 being the lowest/average and 3 being the highest/excellent or outstanding. The feedback response in detail is included in the Annexure below. The following conclusions were drawn from the trainees' responses to the following points.

General Feedback

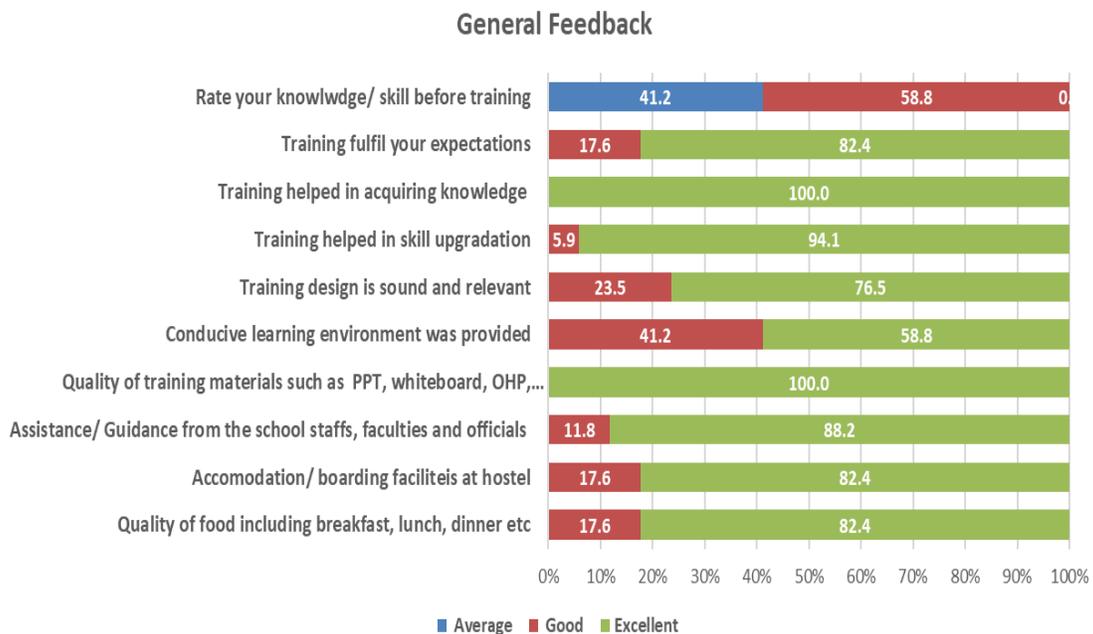
The analysis of General feedback from the training is mentioned below:

Before the training:

- ▶ Only 58 percent of the participants shared that they had a good understanding of the topics covered in the training, while 41 percent shared, they had an average understanding.

After the training:

- ▶ All the participants (100 percent) agreed that the course had aided in their knowledge acquisition.
- ▶ 94 percent of the participants said the training sessions were very effective in helping them improve their abilities.
- ▶ 82 percent of the participants said that their expectations for the training had been met to the greatest extent possible, while the remaining 18 percent gave the program a good rating for meeting their expectations.
- ▶ 77 percent of the participants thought the training was exceptional in terms of design and relevance, while percent said it was good in both of those areas.



Assistance and support

- ▶ Every participant (100 percent) expressed complete satisfaction with the quality of the training materials, including PPT, OHP, White Board, and others.

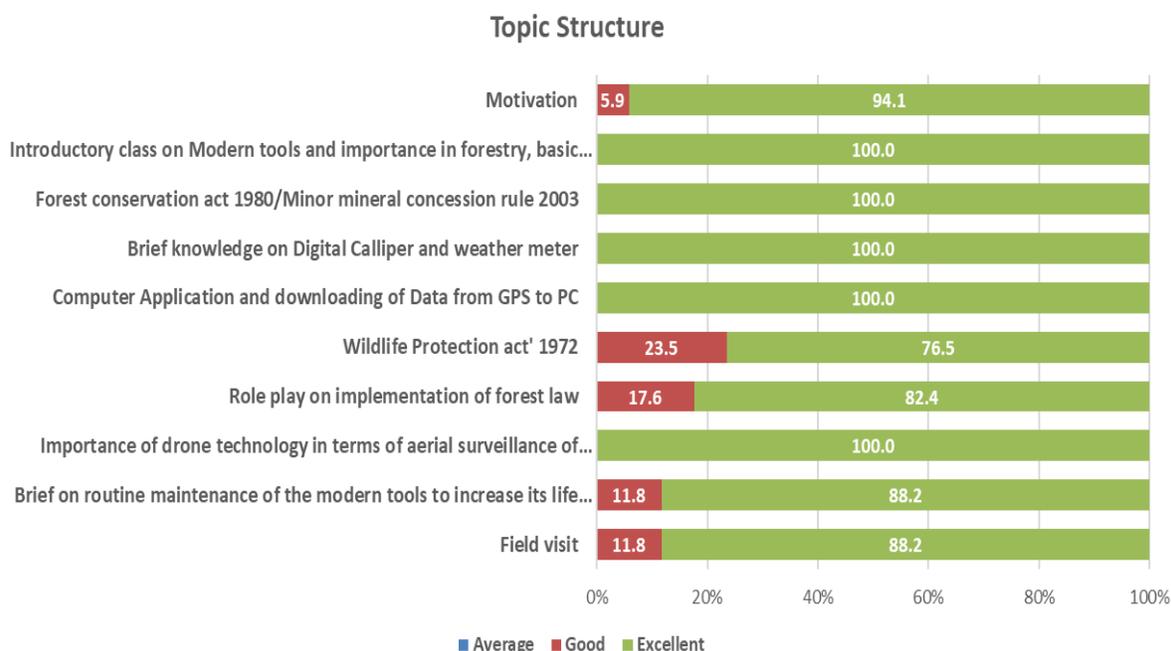
- ▶ 88 percent of the participants said they were completely satisfied with the help, direction, or support they had gotten from the faculty and other members of the school staff.
- ▶ 82 percent of the participants gave an excellent rating to the lodging and boarding facilities, and food quality they received throughout the training.

Session Wise Feedbacks

The feedback from each session was gathered in terms of the topic's structure, the interest generated, lecture delivery, reading materials provided, and overall knowledge improvement from the session. The following are the results of the session's feedback:

Topic Structure

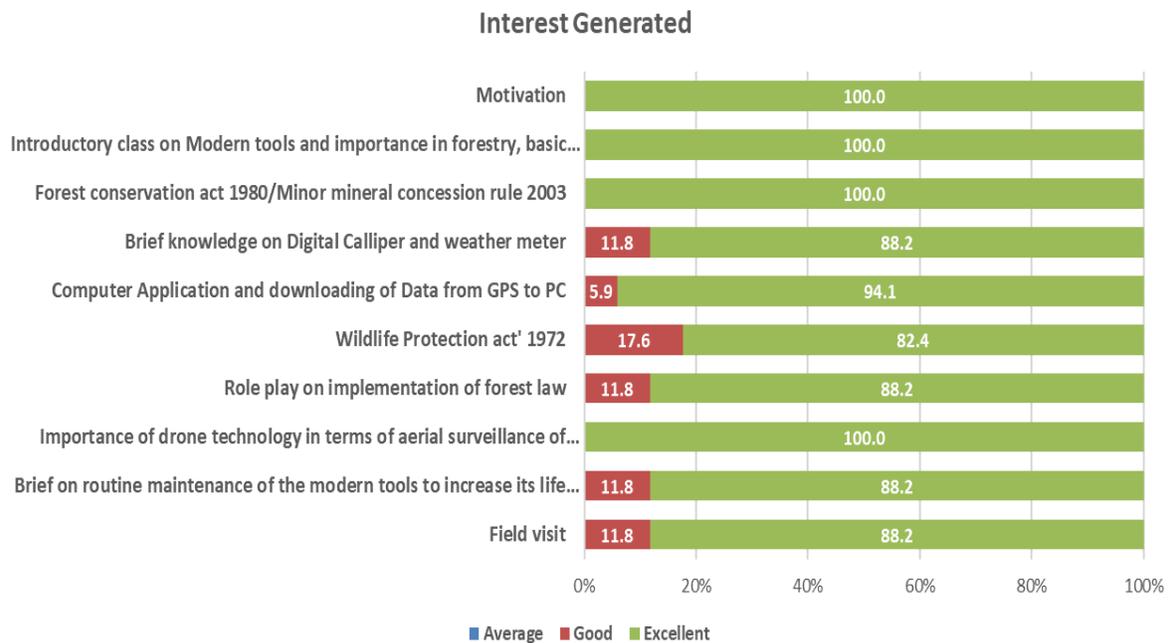
- ▶ All of the participants rated the sessions on "Computer Application and Downloading of Data from GPS to PC", "Brief Knowledge on Digital Calliper" and Weather Meter", "Introduction to Modern Tools and Importance in Forestry ", "Forest conservation act" and "Importance of drone technology in terms of aerial monitoring of forest area and demonstration" as excellent in terms of topic structure
- ▶ 94 percent of participants evaluated "motivation and team building" as excellent
- ▶ Likewise, 88% of participants gave the "Field visit" and "Brief on routine maintenance of contemporary tools" sessions excellent ratings



Interest Generated

- ▶ All of the participants gave excellent ratings for the interest sparked by sessions like "Motivation and team building," "Introduction to Modern Tools and Importance in Forestry," "Importance of Drone Technology in Terms of Aerial Surveillance of Forest Area and Demonstration," and "Forest Conservation Act."
- ▶ In terms of generating interest, 94 percent of the participants evaluated the session on "Computer Application and Downloading of Data from GPS to PC" as excellent.

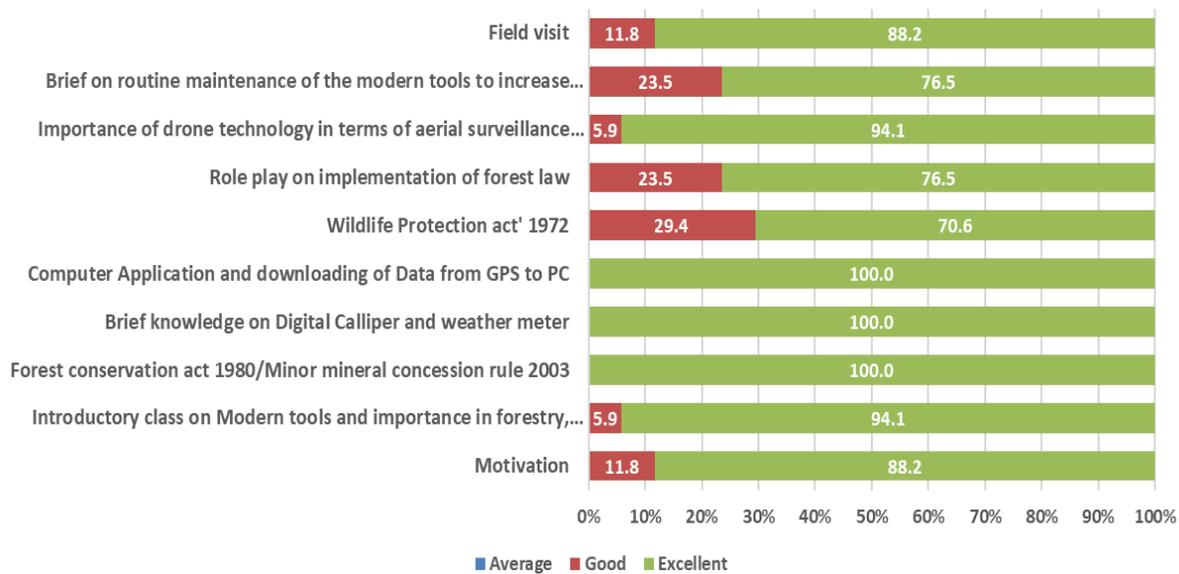
- ▶ Likewise, 88 percent of participants gave excellent ratings to the lectures on "Brief knowledge on the digital calliper and weather meter," "Computer Application and downloading of Data from GPS to PC," "Role play on implementation of Forest Law," "Field visit," and "Brief on routine maintenance of modern tools”



Delivery of Lecture

- ▶ All of the participants gave the sessions on "Brief knowledge on digital calliper and weather meter," "Computer Application and downloading of Data from GPS," and "Forest conservation act" excellent ratings for the way they were delivered.
- ▶ 94% of participants gave the "Introduction to modern tools and relevance in forestry" and "Importance of drone technology in terms of aerial monitoring of forest area and demonstration" sessions excellent ratings.
- ▶ Similarly, 88% of participants assessed the training sessions "Motivation" and "Field visit" as outstanding in terms of the facilitator's delivery of the lecture.

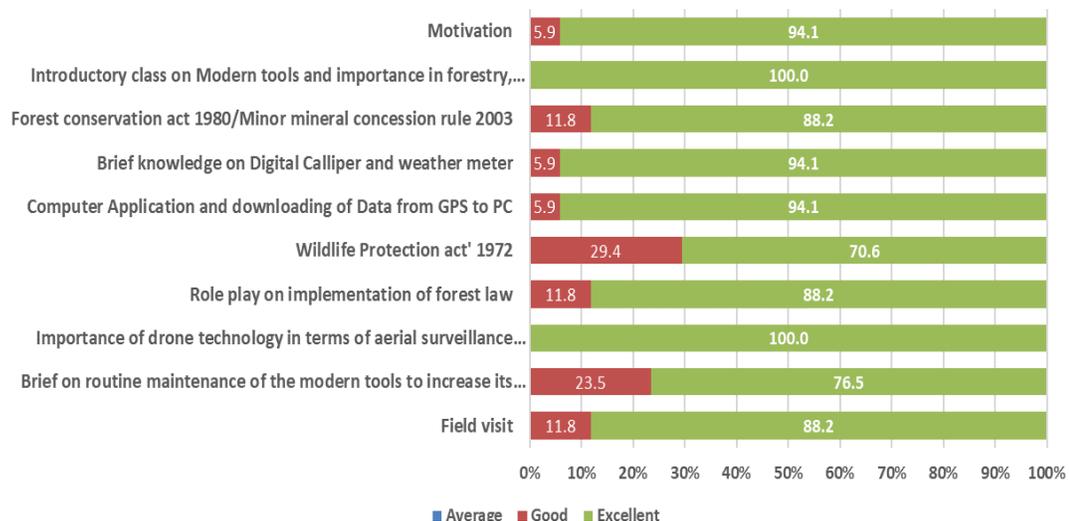
Delivery of Lecture



Reading Materials

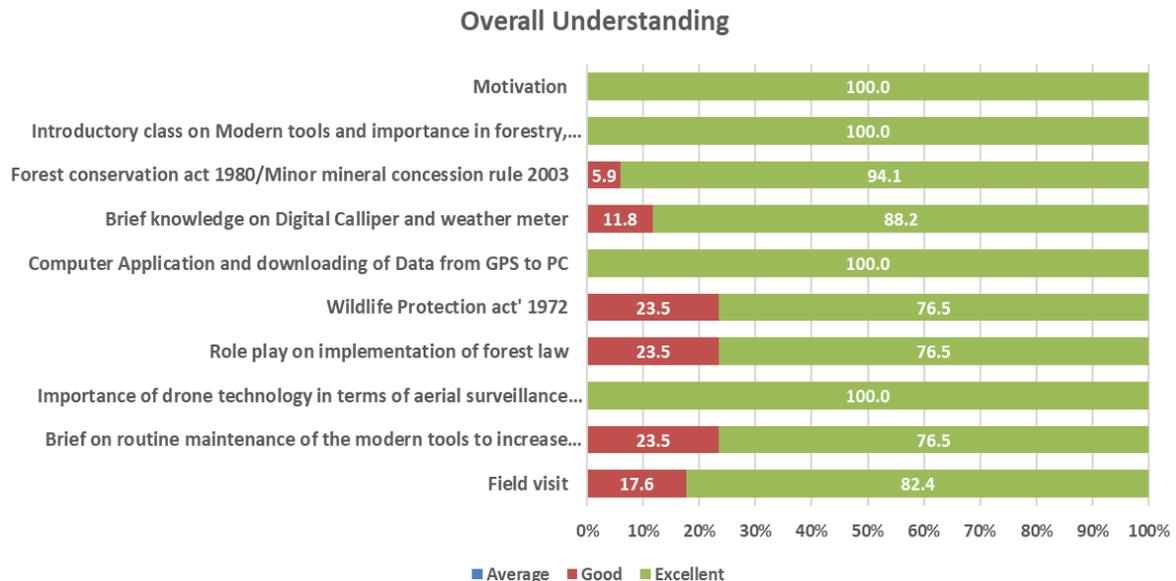
- ▶ All of the participants (100%) rated the "Introduction to Modern Tools and Importance in Forestry" and "Importance of Drone Technology in Terms of Aerial Surveillance of Forest Area and Demonstration" as excellent.
- ▶ In addition, 94 percent of the participants rated "Motivation," "Brief Knowledge on Digital Caliper and Weather Meter," and "Computer Application and Downloading of Data from GPS to PC" as excellent.
- ▶ 88 percent of participants evaluated the sessions on the "Forest Conservation Act", "Role Play on Implementation of Forest Law", and "Field Visit" as outstanding in terms of the quality of the reading materials offered

Reading Materials



Overall Understanding

- ▶ The sessions on "Motivation," "Introduction to Modern Tools and Their Importance in Forestry," "Computer Application and Downloading of Data from GPS to PC," and "Importance of Drone Technology in Terms of Aerial Surveillance of Forest Area and Demonstration" received excellent ratings from all participants in terms of overall understanding.
- ▶ 94 percent of the participants evaluated the session on the 'Forest Conservation Act' and 88 percent rated the session on "Brief knowledge on digital calliper and weather meter" as excellent.
- ▶ 82 percent of participants gave the "Field Visit" an excellent rating, while 76.5 percent of participants gave the "Wildlife Protection Act," "Role Play on Implementing Forest Law," and "Brief on Routine Maintenance of Modern Tools" a perfect score.



Anecdotes

- ▶ Nitul Das of the Kamrup East Division shared that ‘the training is excellent, but the time is short, therefore similar training is required in the future.’
- ▶ ‘I am extremely delighted, and we are all studying for our future and fantastic teaching’ - Raju Sinha, Karimganj Division.
- ▶ ‘I’ve learned a lot of new things at this program’ shared by Dipak Malakar, Ghy S.F Division.
- ▶ ‘I am certain that I will be able to work properly in the future because of my enhanced knowledge of new tools and equipment.’ was shared by Biplab Medhi of Ghy WL Division
- ▶ Dipak Sharma of Mangaldoi WL division shared that ‘Such training can sometimes boost our knowledge while also increasing our confidence and mental strength’
- ▶ ‘Training for seven days is excellent’- Thaneshwar Kalita, Ghy WL division.
- ▶ ‘Very nice water facility, cuisine, and atmosphere’-Bulbul Sarkar, Nagaon WL division

Summary

It was found that the seven-day training session had substantially aided the participants in learning new information and improving their skills. Almost all of the participant's expectations were met by the training program.

Almost every session had a significant impact on the participants. The participant's knowledge and skill development were greatly impacted by the sessions. According to the feedback received, all of the sessions were evaluated extremely well by the participants (more than 2.7 out of 3). Almost every session received an overall rating of 90 percent or higher.

"Motivation and Team Building," "Introduction to Modern Tools and Importance in Forestry," "Computer Application and Downloading of Data from GPS to PC," "Forest Conservation Act of 1980," and "Importance of Drone Technology in Terms of Aerial Surveillance of Forest Area and Demonstration" were some of the sessions which were highly rated by the participants

The training participants provided considerable reviews of other sessions as well.

11. Conclusion

The Forest Guards' seven-day specialized training on the use of modern tools and technologies took place at the Makum Campus. The instruction was given offline. Forest officials and other specialists with in-depth knowledge of forestry imparted the training session to the participants. Topics such as - an introduction to modern forestry equipment, utilizing GPS, forest policy and legislation, computer applications, familiarity with digital callipers, and weather meters, and the significance of drone technology for aerial surveillance were covered in the course. Field visits were organized to provide participants with hands-on experience with GPS applications, drones, callipers, the process of capturing stumps, logs, hammer imprints, and others for their skill building.

The Forest Guards expressed their satisfaction through feedback mechanisms on the training content, methodology, and delivery of the trainers. They were highly satisfied with the entire training event. The participants responded positively to the training sessions such as using drones, digital callipers, and other tools. The field trips also helped in enhancing their knowledge and skilling using the tools and equipment.

Annexure- I: Module of Specialised training

Programme for one week Specialized Training on "Application of Modern Tools and Technique in Forestry" for Forest Guards' School, Makum								
Under APFBC Scheme, Nos. of Trainees -20 each batch								
Date	Time	Session-I	Time	Session-II	Time	Session-III & IV	Time	Time
	8-00 am To 8-30 am	8-45 am to 10-15 am	10-15 am To 10-30 am	10-30 am to 12-00 Noon	12-00 Noon To 1-00 pm	1-00 pm to 4-00 pm	4-00 pm To 5-00 pm	8-00 pm To 9-00 pm
07-11-2022	Break fast	Registration and Inaugural Session (S. Alam, Suptd.)	T E A B R E A K	Introductory Class on Modern Tools & importance in forestry., Basic knowledge on application of GPS (M.K. Goswami, DFO, T.T.&S. Plant, Divn.)	Lunch Break	Field Practical : Working with GPS at lakhipather RF under Digboi Division (M. Bharadwaj, FR/JGoswami,Dy.Ranger)	Evening Tea	Dinner
08-11-2022		Forest Conservation Act' 1980 / Minor mineral Concession Rule -2013 (M.K. Goswami, DFO, T.T.&S. Plant, Divn.)		Brief knowledge on Digital Caliper and Weather meter (B.V. Sandeep,IFS, DFO, Dibrugarh Division)		Field Practical : Working with GPS and Densitometer at Jokai RF under Dibrugarh Division (M. Bharadwaj, FR/JGoswami,Dy.Ranger/ M.Bania,Fr-I, M.Gogoi,Fr-I)		
09-11-2022		Classroom activity : Computer application and downloading of data from GPS to PC (Kastauri Sule, IFS,ACF, Digboi Division)		Classroom activity : Downloading of Data from GPS to PC . Brief knowledge of Densitometer (Kastauri Sule, IFS,ACF, Digboi Division)		Field Practical : Working with Digital caliper . Weather meter and GPS at Dihing Patkai NP (M. Bharadwaj, FR/JGoswami,Dy.Ranger/ M.Bania,Fr-I, M.Gogoi,Fr-I)		
10-11-2022		Role Play on implementation of Forest law (M. Bharadwaj, F.R)		Wild Life Protection Act : 1972 (P. Sharma, F.R,Retd.)		Field visit for seizure procedure of stumps, log & various hammer impression at Sadiya Range . (M. Bharadwaj, FR/JGoswami,Dy.Ranger/)		
11-11-2022		Wild Life Protection Act : 1972 (P. Sharma, F.R. Retd.)		MOTIVATION (Gyan Sarmah, APFBC Office, Guwahati)		MOTIVATION (Gyan Sarmah, APFBC Office, Guwahati)		
12-11-2022		Brief on routine maintenance of the modern tools to increase its life span. (T.C.Ranjith Ram, DFO, Digboi Division)		Importance of Drone technology in terms of aerial surveillance of Forest area & demonstration (T. C. Ranjith Ram, DFO, Digboi Division)		Field Practical : Operation of Drone . (T.C.Ranjith Ram, DFO, Digboi Division)		
13-11-2022		Role Play on implementation of Forest law (M. Bharadwaj, F.R)		Group Discussion & feedback (S. Alam,AFS,Suptd./M. Bhardwaj,FR/J.Goswami, Dy. Ranger/)		Valedictory function		

N. B. The programme is subject to minor change considering convenience of Resource Persons.


 (Saidul Alam, AFS)
 Superintendent,
 Assam Forest Guards' School, Makum)

Annexure- II: List of Participants

Sl. No.	Name of Participant	Designation	Division
1	Sri Nitul Das	Forest Guard	Kamrup East Division
2	Sri Dipak Malakar	Forest Guard	Guwahati Social Forestry Division
3	Sri Dipak Barman	Forest Guard	Guwahati Social Forestry Division
4	Sri Biplab Medhi	Forest Guard	Guwahati Wild Life Division
5	Sri Dipak Sarma	Forest Guard	Mangoldoi Wild Life Division
6	Sri Ranjit Kumar Borah	Forest Guard	Nagaon Social Forestry Division
7	Sri Rohan Hasnu	Forest Guard	Northern Afforestation Divn Hill, Diphu
8	Sri Chandra Kanta Talukdar	Forest Guard	Mangoldoi Wild Life Division
9	Sri Raju Sinha	Forest Guard	Karimganj Division, Karimganj
10	Sri Monto Gogoi	Game Watcher	Eastern Assam Wild Life Division, Bokakhat
11	Sri Bulbul Sarkar	Forest Guard	Nagaon Wild life Division
12	Sri Pradip Saikia	Forest Guard	Tinsukia Wild Life Division, Tinsukia
13	Sri Thaneswar Kalita	Game Watcher	Guwahati Wild Life Division
14	Md. Asraful Alam Fakir	Forest Guard	Nagaon Wild Life Division
15	Sri Nabakanta Bordoloi	Forest Guard	Nagaon South Division
16	Sri Shyam Chandra Das	Forest Guard	Nagaon South Division
17	Sri Monoj Kr. Barman, Fgd	Forest Guard	Kamrup East Division

Annexure- III: Feedback Format

FEEDBACK FORM

Specialized Training on “Application of Modern Tools & Technique in Forestry” for
Forest Guards & Game Watcher
At Assam Forest Guards’ School, Makum
With effect from 07-11-2022 to 13-11-2022

(Rate the following activities/subjects with A= Excellent, B= Good, C= Average)

1. General impression/Idea about the content of the Course before training :

A	B	C

2. Does this training fulfil your expectations:

A	B	C

3. Does this training help in acquiring knowledge on relevant subjects:

A	B	C

4. Does this training help in skill up-gradation :

A	B	C

5. Whether the training design is sound and relevant :

A	B	C

6. Whether a conducive learning environment was provided by the trainers :

A	B	C

7. Quality of training materials including visuals (PPT), whiteboard, OHP, handouts, etc. :

A	B	C

8. Assistance/ help/guidance/treatment from the School Staff, Faculties, and Officials of the Institute:

A	B	C

9. Accommodation/Boarding facilities at the Hostel :

A	B	C

10. Quality of food including breakfast, lunch, dinner, etc. :

A	B	C

Subject-wise rating :

(i) Motivation Class

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(ii) Introductory class on modern tools & importance in forestry. Basic knowledge on the application of GPS :

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(iii) Forest Conservation Act'1980/Minor mineral Concession Rule-2003 :

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(iv) Brief knowledge of Digital calliper and Weather meter

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(v) Computer application and downloading of data from GPS to PC :

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(vi) Wild Life Protection Act'1972

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(vii) Role Play on implementation of Forest law :

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(viii) Importance of Drone technology in terms of aerials surveillance of Forest areas & demonstration :

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(ix) Brief on routine maintenance of modern tools to increase their life span :

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

(x) Field Visit :

Topic Structure			Interest Generated			Delivering lecture			Reading materials			Overall Understanding		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C

Any other comment

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Name:.....Division.....

Annexure- IV: Certificate format

Forest Department,
Govt. of Assam

ASSAM FOREST GUARDS' SCHOOL,
MAKUM

জসম ইন্ডাক্স
GOVERNMENT OF ASSAM

ASSAM PROJECT ON
FOREST & BIODIVERSITY
CONSERVATION

AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

GOVT. OF ASSAM
ASSAM FOREST GUARDS' SCHOOL, MAKUM
CERTIFICATE

This is to certify that

S/o.....

Under has attended
one week Specialized Training Course of Frontline Staffs (Forest Guards / Game
Watchers) from 07-11-2022 to 13-11-2022.

(Dr. Sonali Ghosh, IFS)
Chief Conservator of Forest
Research, Education and Working Plan
Assam, Guwahati

(Saidul Alam, AFS)
Superintendent
Assam Forest Guards' School, Makum

