

DRSC(C)-70

DEPARTMENTALLY RELATED STANDING COMMITTEE ON
DEVELOPMENT (C) DEPARTMENTS

2026-2027



SIXTEENTH ASSEMBLY SEVENTY REPORT

ON

GRANT NO. 69

**DEPARTMENT:
SCIENCE & TECHNOLOGY**

Presented to the House on 22nd July, 2026

**ASSAM LEGISLATIVE ASSEMBLY SECRETARIAT,
DISPUR, GUWAHATI-781006.**

CONTENTS

	<u>Page No.</u>
1. Composition of the Committee	(i)
2. Introduction	(ii)
3. Report	1-39
4. Observations & Recommendations	40

(i)

**COMPOSITION OF THE DEPARTMENTALLY RELATED STANDING COMMITTEE ON
DEVELOPMENT (C) DEPARTMENTS, 2026-27**

CHAIRPERSON :

1. Shri Rupjyoti Kurmi, MLA.

MEMBERS

- | | |
|-------------------------------|--------------|
| 2. Dr. Paramananda Rajbongshi | MLA & Member |
| 3. Shri Manab Deka | MLA & Member |
| 4. Shri Diganta Kalita | MLA & Member |
| 5. Shri Diplu Ranjan Sarmah | MLA & Member |
| 6. Shri Rishiraj Hazarika | MLA & Member |
| 7. Shri Surjya Rongphar | MLA & Member |
| 8. Shri Lunsing Teron | MLA & Member |
| 9. Shri Nurul Huda | MLA & Member |
| 10. Shri Tanzil Hussain | MLA & Member |
| 11. Shri Jibesh Roy | MLA & Member |
| 12. Shri Thaneswar Basumatary | MLA & Member |
| 13. Shri Mazibur Rahman | MLA & Member |

SECRETARIAT

1. Shri Rajib Bhattacharyya , Secretary.
2. Shri Prodip Handique, OSD (Joint Secretary).
3. Smti. Ruman Choudhury, Asstt. Language Officer.
4. Smti. Aporna Devi Sarmah, Asstt. Language Officer
5. Smti. Sewali Bhagawati Sarma, Committee Officer.

(ii)

INTRODUCTION

1. I as Chairperson of the Departmentally Related Standing Committee on Development (C) Departments having been authorized by the Committee to submit the Report on its behalf present this 70th Report on Grant No. 69 relating to Science & Technology on the Budget estimates for the Financial Year 2026-27, Govt. of Assam.
2. The present Committee, in pursuance of Rule 260 H (1) of the Rules of Procedure and Conduct of Business in Assam Legislative Assembly has been constituted on 9th July, 2026 by the Hon'ble Speaker, Assam Legislative Assembly for a term of one year and accordingly Notification was published on 10th July, 2026.
3. The committee has considered the Demand for Grant No. 69 on the Budget Estimates for the Year 2026-27 in its meeting held on 16th July, 2026.
4. The Committee has been befitted with the assistance rendered by the Government representatives during the course examination of the Budget estimates under the aforementioned Grant for the year 2026-27. The Committee has formulated its observations taking into consideration the valuable submission tendered by the Official witnesses, during the course of consideration of the Budget Estimates.
5. The committee wishes to keep in record the genuine services rendered by the Government Officials to the Departmentally Related Standing Committee on Development (C) Departments, Secretary as well as the concerned Officers and Staff of Assam Legislative Assembly Secretariat for their unstinted service devoted to the Committee, during the preparation of this Report.
6. The Committee has considered the Draft Reports on 18th July, 2026 and approved it on the same day.

Dispur
Dated 18th July, 2026

Rupjyoti Kurmi
Chairperson,
Departmentally Related Standing
Committee on Development (C)
Departments
Assam Legislative Assembly.

GRANT NO.69**SCIENCE & TECHNOLOGY DEPARTMENT**

The Budget provision under Grant No. 69 of Science & Technology Department for the year 2026-2027 is given under the following table :-

BUDGET ESTIMATES			
	Revenue	Capital	Total (in lakhs)
Voted	1868.98	7873.98	9742.96
Charged	0.00	0.00	0.00

Head of Account		Budget Estimates 2026- 2027 (Rs. In lakhs)
2810	New and Renewable energy	43.75
3425	Other Scientific Research	1794.19
3435	Ecology and Environment	31.04
5425	Capital outlay on other Scientific and environment Research	7873.98
Grand Total		9742.96

The DRSC on Development (C) Departments in its sitting held on 16th July, 2026 and examined the status papers and documents received from the Department and took evidences from the Departmental representatives.

Preliminary Status Report

GRANT NO.69 SCIENCE, TECHNOLOGY

The Budget provision under Grant No.69 of Science& Technology Department for the year 2026-2027 vote of Account Budget is given under the following table:-

	BUDGET ESTIMATES		
	Revenue	Capital	Total (Rs in lakhs)
Voted	496.86	1471.14	1968
Charged	0	0	0

Major Head of Account	Head Details	Budget Estimates for the year 2026-2027 (Rs. In lakhs)
2810	New and Renewable Energy	23.27
3425	Other Scientific Research	441.62
3435	Ecology & Environment	31.67
5425	Capital Outlay on other Scientific and Environment Research	1471.14
Grand Total		1968.00

GRANT NO.69

SCIENCE & TECHNOLOGY DEPARTMENT

Under Grant No. 69, relating to Science & Technology Department, there are 4 Nos. of Major H/A viz. "5425" "3425" "3435", and "2810. The detailed vote of Account Budget Provision for the current Financial Year 2026-27 is as below:

Head of Account	Budget Estimates (Rs. In Lakhs)	
	Revenue (Rs. in lakh)	Capital (Rs. in lakh)
2810-New and Renewable Energy	23.57	-
3425-Other Scientific Research	441.62	-
5425- Capital Outlay on other Scientific and Environmental Research	-	1471.14
3435- Ecology & Environment (Green Innovation Fund)	31.67	-
Total	496.86	1471.14
Grand Total	1968.00Lakh	

The Science& Technology Department with its various organs are implementing various programmes to utilize and propagate the benefits of Science & Technology to all sections of people.

Originally known as the "Department of Science Technology and Environment" was created on 22nd November 1982. However, the Department was later renamed as Science & Technology Department.

SCIENCE & TECHNOLOGY (GRANT NO. 69)

The Government of Assam is giving due priority to the Science & Technology sector for overall growth and development of the state. The Science & Technology Department, with its various organs are implementing various programmes to promote and popularise science & technology and to utilise and propagate the benefits of science & technology to all sections of people.

The sub-ordinate wings of Science, Technology & Climate Change Department are:

A. Directorate of Science & Technology Assam

- I. The Directorate of Science & Technology was established in late 1995 to ensure the efficient functioning, coordination, and monitoring of various schemes in the Science & Technology sector. Prior to this, the post of Ex-officio Director was created in 1983 with a small team of technical and non-technical staff.
- II. The post of Director was created by the Government in December 1995. Subsequently, the Drawing and Disbursing Officer (DDO) powers were delegated to the Director, Science & Technology, with effect from 1 April 2014, vide Notification No. STE.74/2013/7 dated 30 December 2013. The Director, Science & Technology was also declared equivalent to the Head of Department. This was issued with the concurrence of the Finance (Estt.-A) Department vide U.O. No. FE.158/96 dated 4 March 1996, and the notification was issued by the Administrative Reforms & Training (AR&T) Department.
- III. The Directorate of Science & Technology is responsible for coordinating and monitoring all schemes under the Science & Technology Department. It also functions as the Budget Controlling Authority for the Department.

B. ASSAM SCIENCE TECHNOLOGY & ENVIRONMENT COUNCIL (ASTEC)

The Assam Science Technology & Environment Council (ASTEC) was established in 1986-87 as an autonomous society under the Societies Registration Act, 1860. It operates through two key divisions:

1. Science & Technology Division
2. Environment Division

Since its inception, ASTEC- under the Department of Science, Technology, and Climate Change, Govt. of Assam- has been actively promoting science popularization, scientific research, and innovation. It plays a crucial role in inspiring the younger generation to pursue careers in science while fostering a scientific temper in society.

ASTEC implements various programs aimed at the comprehensive development of Assam through scientific and technological interventions. These initiatives focus on enhancing social security, environmental sustainability, efficient utilization of natural resources, human resource development, knowledge creation, and innovation.

Recognized as one of the leading State Science & Technology Councils in India, ASTEC continues to make significant contributions to the state's progress in science, technology, and environmental sustainability.

Objectives:

1. Identify Key Gaps for S&T Intervention – Assess the critical gaps in society where science and technology can play a transformative role in driving the state's overall development.
2. Prioritize Research & Development Areas – Determine the key focus areas for research and development within state-level science and technology institutions to align with strategic goals.

3. Evaluate S&T Program Implementation – Analyze the challenges and opportunities in implementing various science and technology programs to foster an innovative mindset across the population.
4. Leverage S&T for Socio-Economic Growth – Explore ways to harness science and technology for achieving socio-economic objectives, addressing unemployment and poverty in rural and underprivileged communities through targeted interventions.
5. Support & Coordinate R&D Initiatives – Initiate, support, and coordinate research and development projects that align with specific S&T objectives, optimizing the state's natural and human resources through institutional collaboration and engagement with national S&T bodies. Additionally, contribute to the domain of Intellectual Property Rights for the state.
6. Promote Scientific Awareness & Engagement – Encourage the popularization of science and technology, cultivate scientific temper and curiosity among all sections of society—especially children—and enhance public understanding and acceptance of S&T.
7. Address Critical S&T Gaps – Intervene in key areas of science and technology applications that fall outside the scope of conventional state institutions, ensuring comprehensive coverage of critical needs.

C. Assam Energy Development Agency

Assam Energy Development Agency under Science & Technology Department, Government of Assam undertakes implementation and promotion of new and renewable energy schemes/projects of Ministry of New & Renewable Energy (MNRE), Government of India in the State of Assam.

AEDA has undertaken PM-KUSUM (Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhiyan) – Component B scheme of MNRE, Govt. of India in the State. Under this Component, the farmers are supported for installation of standalone Solar pumps or replacement of existing diesel pumps systems in off-grid areas, where grid supply is not available. Priority has been given to small and marginal farmers and farmers using micro irrigation. The scheme aims to increase farmer income and provide easy access to irrigation through solar powered pumping systems.

Under the PM-KUSUM scheme from the Ministry of New & Renewable Energy (MNRE), execution of 1,695 units of 2HP DC Solar Water Pumps across Assam was carried out by AEDA.

This scheme offers a combined Central and State subsidy exceeding 85% of the total execution cost. The initiative provides farmers with reliable irrigation power, no diesel operating costs, and improves agricultural productivity throughout the state along with zero emissions.

D. Assam State Space Application Centre (ASSAC) :

The Assam State Space Application Centre (ASSAC) is the State's nodal agency for the application of Remote Sensing (RS), Geographic Information Systems (GIS), Global Positioning Systems (GPS), UAV/Drone technologies, and geospatial analytics for governance and development. Originally established as ARSAC in 1988 and reconstituted as ASSAC in 2021, the Centre provides technical support to Government departments in areas such as agriculture, natural resource management, disaster management, infrastructure planning, environmental monitoring, wetlands, forestry, fisheries, and digital governance. ASSAC has emerged as the premier geospatial institution of Assam, having undertaken nearly 60 projects since 2021 and is presently spearheading the proposed AssamSAT Earth Observation Satellite Programme for strengthening disaster management, environmental monitoring and evidence-based governance. The Centre is well equipped with necessary computer systems / software and modern surveying tools such as UAV / Drone, DGPS as well as well-trained highly motivated scientific staff to render necessary services using space inputs and geospatial technology. ASSAC being Nodal Agency of the state further included under the PM Gati Shakti programme as dedicated technical institute for data sharing, establishing data quality standards and developing a policy framework for geospatial data in the State. This designation has enable ASSAC to better liaise

with stakeholders of the State Government, ISRO, DOS and NESAC in scientific and techno-managerial activities and provide advanced space technology inputs more effectively to various line departments Water Resources, Irrigation, Agriculture, Town and Country Planning, Fisheries, Border protection and Development of Assam, Revenue and Disaster Management, facilitating innovative approaches in the design and implementation of development projects and potentially reducing costs and time overruns. ASSAC has also initiated an outreach activity at district level to sensitise the line departments at district level for utilisation geospatial technology in governance and developmental planning which are ongoing. During this Financial Year ASSAC has carried out many important projects on Natural Resources Management as per need of line departments as well as developed Web GIS Application, Field Survey using DRONE & DGPS and Capacity Building.

E. JORHAT SCIENCE CENTRE AND PLANETARIUM

Jorhat Science Centre & Planetarium (JSC&P) was jointly established by the National Council of Science Museums (NCSM), Ministry of Culture, Government of India, and the Assam Science Technology & Environment Council (ASTEC), Department of Science and Technology, Government of Assam. The Centre was inaugurated on 6 July 2013 with the objective of promoting scientific awareness among the general public and fostering scientific temper for the overall growth and development of the State. Subsequently, in December 2016, JSC&P Society was constituted and registered as an autonomous Society under the Department of Science and Technology, Government of Assam. Since then, it has been functioning as the institutional organization of the Department for implementing various important programmes in the field of science and technology, with a special focus on the popularization of science, promotion of innovation, and dissemination of scientific knowledge among students and the public.

Objectives: The objectives for which the Society was established are-

- i. To foster and disseminate scientific and technological knowledge on various aspects of science & technology which are in the interest of the Upper Assam region and the state;
 - ii. To provide practical and interactive learning opportunities.
 - iii. To develop curiosity among the young minds about astronomy and space science.
 - iv. To execute/implement schemes on science, technology and environment of the Govt. of India, Govt. of Assam, North Eastern Council and other public bodies;
 - v. To portray the growth of science & technology in different spheres and their application in industry & human welfare, with a view to develop scientific attitude and temper and to create, inculcate and sustain a general awareness amongst the masses;
 - vi. To design, develop and fabricate science museum exhibits, demonstration equipments and scientific teaching aids for science education and popularization ;
 - vii. To popularize science & technology in cities, rural & urban areas for the benefit of students and for the common people by organizing exhibitions, seminars, popular lectures, science camps and various other programmes;
 - viii. To supplement science education given in schools & colleges and to organize various out-of-school educational activities to foster a spirit of scientific enquiry and creativity amongst the students;
 - ix. To organize training programmes for science teachers/students/young entrepreneurs/technicians/handicapped/house-wives and others on specific subjects of science, technology & industry;
- a. Functions: The basic functions of JSC&P Society are-
- i) Display and demonstrate different science exhibits in different science galleries within the campus of the society.
 - ii) Conduction of planetarium shows for creating awareness on astronomical science

- iii) Conduction of various workshops related to science and technology for the teachers community as well as the students community.
- iv) Conduction of various in-house as well as outreach programmes on different subjects such as environmental awareness, space science, scientific innovations etc to disseminate scientific knowledge to the people.

To introduce new scientific installations and modernize the Jorhat Science Centre and Planetarium (JSC&P), the Hon'ble Chief Minister of Assam announced an allocation of ₹10.00 crore during the Cabinet meeting held at Jorhat on 15 December 2022, with the objective of strengthening scientific infrastructure and promoting scientific awareness for the benefit of society.

In pursuance of this announcement, JSC&P submitted a comprehensive list of required facilities under the Chief Minister's Modernization Plan to the Public Works Department (PWD) for preparation of the Detailed Project Report (DPR). Accordingly, the PWD prepared a DPR amounting to ₹864.15 lakh, for which Administrative Approval has been accorded. Consequently, several civil construction and other allied works have been initiated under the Modernization Plan.

Further, as part of modernization initiative, Administrative Approval has also been accorded for the replacement of the existing Planetarium Projection System at JSC&P. Accordingly, the National Council of Science Museums (NCSM) has floated the tender for procurement and installation of the new projection system. Subsequently, the Science and Technology Department, Government of Assam, has accorded a revised Administrative Approval for an amount of ₹184.49440 lakh (Rupees One Crore Eighty-Four Lakh Forty-Nine Thousand Four Hundred and Forty only) for the replacement of the existing Single Planetarium Projection System at Jorhat Science Centre and Planetarium.

F. Guwahati Biotech Park

Guwahati Biotech Park (GBP) is driving biotechnology innovation and entrepreneurship in Assam through its Technology Incubation Centre (TIC) at Amingaon. The Centre has supported over 69 biotechnology and allied sector startups, while currently incubating 19 ventures.

To strengthen the biotechnology ecosystem, GBP is developing the Business Enterprise Zone (BEZ), a dedicated biotechnology industrial cluster that will provide long-term land lease for large and medium-scale biotechnology industries to establish manufacturing, research and innovation facilities. The BEZ is expected to attract investments, facilitate industry-academia collaboration, generate employment, and position Assam as a biotechnology manufacturing hub in the North Eastern Region. To address the growing demand for incubation infrastructure, Phase-II expansion of the Technology Incubation Centre is underway. The project includes vertical expansion of laboratory facilities for small-scale production units, a hostel for interns and researchers.

The Assam Biotechnology Council is responsible for implementing the Biotechnology Policy of Assam, including operational activities and administration of incentives to promote biotechnology research, innovation, entrepreneurship, investment, and employment generation in the State.

GBP has also secured several flagship programmes of the Government of India, including:

- DST-NIDHI PRAYAS Centre (₹1.69 crore) to support proof-of-concept development for early-stage innovators.
- Business Incubation Centre for Fisheries and Aquaculture (BICFA) under PMMSY (₹2.99 crore) to promote entrepreneurship in fisheries and aquaculture through incubation, technology transfer, consultancy, IPR support, and pilot-scale packaging facilities.
- Regional Honey Testing Laboratory (RHTL) under the National Beekeeping and Honey Mission (₹5.51 crore) to provide honey quality testing, export certification, traceability, and beekeeper support across the North Eastern Region. RHTL has received ₹62.45 Lakhs from Government of Assam as State Share

- Recognition as a Host Institute under the MSME Innovative Scheme, enabling financial assistance of up to ₹15 lakh per startup and eligibility to seek up to ₹1 crore for strengthening common R&D and incubation infrastructure.
- Establishment of a Skill Satellite Centre under the Technology Development and Utilization Programme for Women (TDUPW) supported by DSIR, Government of India, with a project outlay of ₹63.36 lakh to promote women's entrepreneurship and skill development in biotechnology and allied sectors.

Through these initiatives, Guwahati Biotech Park is creating an integrated biotechnology ecosystem encompassing innovation, incubation, industrial infrastructure, technology commercialization, skill development and investment promotion, thereby accelerating the growth of the biotechnology sector in Assam and the North Eastern Region.

G. Science City, Guwahati

Science City Guwahati is a premier science communication and public engagement centre jointly established by Science & Technology Department, Govt. of Assam and the National Council of Science Museums (NCSM), Ministry of Culture, Government of India. The centre aims to promote scientific temper, innovation, and curiosity among people of all age groups through interactive exhibitions, educational programmes, immersive experiences, and outreach activities.

The first phase of Science City Guwahati was inaugurated on 10 March 2026, with the opening of two major buildings, namely Eureka and Odyssey. These buildings together house seven exhibition galleries covering diverse themes in science and technology and are open to visitors throughout the year.

Science City Guwahati serves as an important hub for science popularisation in the North-Eastern region of India by organising workshops, lectures, science shows, competitions, and special events for students, teachers, and the general public.

H. Guwahati Planetarium

The prime objective of the Guwahati Planetarium is to promote scientific knowledge and to inculcate scientific temper amongst the masses by providing entertainment based Astronomical programmes to people, students and children in particular.

To serve as knowledge based Science communicator, Planetarium has to take another action by introduction to regular training programme in Astronomy to impart knowledge to new Generation. All Planetarium in other parts of the country and also in the world, have already addressed this vital issue. Guwahati Planetarium has been conducting Public Outreach programmes as well as awareness programmes amongst masses along with observation programme on special Astronomical events occurring from time to time. Besides the regular shows the Guwahati Planetarium has relentlessly arranging lectures and workshops on Astronomy and Space Science; over and above guided night sky observations in Planetarium premises. Planetarium have to serve as knowledge bank and fulfil this vital aspect introduction of regular training programme with updated knowledge on Astronomy is of utmost necessity.

Guwahati Planetarium has already been declared as an Institution of Higher Education and Scientific Research for advancement and development of Science Technology and Research in the State of Assam. To this effect an Astronomy Gallery, 3-D Theatre, Virtual Reality Zone and Educational Metaverse have been running successfully for the first time in the North Eastern Region at the Guwahati Planetarium. Mobile Planetarium and Telescopes for mass awareness on Astronomy among students and children in remote corners across the State have also been inaugurated at Guwahati Planetarium recently dedicated to the society.

Multi-Activity Centre at Guwahati Planetarium

Construction of the Multi-Activity Centre (G+3 Building) at the Guwahati Planetarium is progressing steadily for the benefit of students, children, and the general public. The Government has accorded Administrative Approval of ₹12.43crore for the construction of the building. The civil works have been completed up to approximately 80%.

In addition, the Government has sanctioned ₹4.94 crore for supplementary works, including the installation of a Central Air Conditioning (AC) system, structural glazing, acoustic treatment, and a fire-fighting system.

Furthermore, Administrative Approval of ₹4.60 crore has been granted for the installation and commissioning of a 15-D Theatre, along with façade lighting and external lighting, to enhance the Planetarium infrastructure and provide visitors with a modern and immersive educational experience

STATUS OF GRANT NO.69

SCIENCE & TECHNOLOGY DEPARTMENT

Under Grant No. 69, there are 4 nos. of Major H/A in respect of Science & Technology Department viz. "5425" Capital Account of Science, Technology and Environment, "3425" Other Scientific Research, "3435- Ecology & Environment (Green Innovation Fund)" and "2810"- New & Renewable Energy.

The position of Grant for the last three years is as follows:

Major H/A	2023-24 (Rs. In Lakhs)		2024-25 (Rs. In Lakhs)		2025-26 (Rs. In Lakhs)	
	EE	SOPD	EE	SOPD	EE	SOPD
3425- Other Scientific Research	1252.27	1247.89	1123.38	1551.25	1137.60	1551.25
2810- New and Renewable Energy	127.45	-	78.50	-	64.28	-
5425- Capital Outlay on other Scientific and Environmental Research	-	8557.75	-	6139.06	-	6139.06
3435- Ecology & Environment (Green Innovation Fund)	-	375.00	-	95.00	-	95.00
TOTAL	1379.72	10180.64	1201.88	7785.31	1201.88	7785.31

A Brief Note in respect of Grant No. 69

The detail schemes of Science and Technology Department under Grant No. 69 are furnished below:

A. Assam State Space Application Centre.

i) Setting Up of Remote Sensing Cell : SOPD scheme under Science and Technology Department, Government of Assam. To achieve the goal of optimal use of space technology coupled with Geospatial analysis using Geographic Information System (GIS), the centre is carrying out few projects on pilot basis identifying vulnerable issues that require special attention and spatial data by government. The scheme facilitates to establish the centre as a service provider to all government departments taking into consideration the departmental requirements. The scheme facilitates following particulars:

- Procurement, up gradation and maintenance of Software licenses (SAAS, LIDAR processing, Arc GIS Enterprise Server and Drone Operation Services and maintenance
- Drone based RGB/ Multispectral /LIDAR analysis for important agricultural crops etc.
- Capacity building on RS and GIS at district level
- Up gradation of Hardware & Software Licenses
- Geo-portal, Dashboard and mobile app development applications and operational services
- Participation in Meetings/ Seminars / Workshop etc.
- Hiring of office Vehicle &
- Engagement of Contractual staff

Projects sponsored by other line departments of Government of Assam:

ii) Development of Comprehensive Change and Encroachment Detection System using Geospatial Technology with suitable Buffer on both side along Assam-Nagaland Border:

Projects sponsored by Border Protection and Development Department, Govt. of Assam.

The project is currently ongoing under the Office of the Directorate of Border Protection and Development, Assam. Historical and contemporary satellite datasets from 1989 to 2024 are being analysed for land use and encroachment change detection. GIS-based monitoring framework and methodology have been developed for periodic monitoring at three-month intervals. The proposed Web-GIS platform and spatial database architecture for continuous monitoring are under development. Key Outcomes Achieved So Far Identification of disputed and sensitive stretches along the Assam–Nagaland interstate boundary for monitoring. Establishment of a geospatial methodology for Land Use/Land Cover (LULC) change detection, Encroachment identification, estimation, Temporal monitoring. The project is expected to strengthen: Border dispute management, Monitoring of encroachments, Evidence-based administrative decision making, Long-term digital geospatial records for governance support. Expected Impact Continuous scientific monitoring of interstate border areas. Early identification of land encroachment and unauthorized land use changes. Creation of a centralized GIS database and Web-GIS system for policy support and administrative action. Improved coordination between border management agencies using geospatial intelligence tools. The project represents a significant step toward application of satellite remote sensing, GIS, UAV and AI-based analytics for interstate boundary governance and dispute monitoring in North East India.

iii) Assam Urban Water Bodies App (AURA) : Sponsored by O/O the Director Town and Country Planning Assam, Government of Assam

The AURA (Assam Urban Water Bodies) Application is an existing GIS-based platform developed for survey, geo-tagging, GIS visualization, monitoring, and reporting of urban water bodies across Assam. The application has already been developed using ASP.NET MVC, PostgreSQL with Post GIS, GeoServer, Windows Server Environment and a PWA-based mobile survey application. AURA

Application has module such as : User Management Module (to perform User login system, role-based access, and user management); AURA Data Collection Module (for Water body survey, geo-tagging, polygon mapping, and Master Plan overlay support); Dashboard Module(for Survey monitoring dashboard, district-wise monitoring, and statistics display); GIS Visualization Module (for GIS map visualization, satellite imagery integration, attribute table, and GIS tools); Survey Questionnaire Integration(for Water body details, ownership details, encroachment information, environmental information, and geo-tagged image upload); GIS & Basemap Integration (Google Hybrid/Satellite, OpenStreetMap, ESRI Satellite, WMS support, and drone imagery provision); District Login & Monitoring(for District-wise login, popup visualization, and filtering support); Existing Dataset Integration(Master Plan, Bhuvan, and Water Census integration); Mobile/PWA Survey Application (Mobile responsive survey interface geo-tagging and photo upload support) etc.

iv) Application of Geo-Spatial Technology for Mapping & Identification of Fisheries and Beels in Assam and Development of Assam Fisheries Resource Information System (AFISH)

The project "Assam Fishery Resource Information System (AFISH)" was undertaken as a collaborative initiative between the Assam State Space Application Centre (ASSAC) and the Department of Fisheries, Government of Assam. The primary objective of the project was to employ advanced geospatial technologies, integrating Geographic Information Systems (GIS), Remote Sensing (RS), and Global Positioning System (GPS), for the inventory, mapping, and classification of all fishery resources across the 33 districts of Assam, with a minimum mapping unit of 0.1 hectare. The study utilized high-resolution satellite imagery from Cartosat-2S and Google Hybrid Images acquired during the pre-monsoon period (December–February) to delineate stable water spread areas. Ground verification was conducted using the "Survey123" mobile application to ensure the accuracy of the mapped resources.

v) Mapping Trees Outside Forest (TOF) Site Suitability for Commercially Important Trees and Carbon Stock Assessment in the State of Assam

The project aims to strengthen agro forestry planning and sustainable land management through the application of Remote Sensing and GIS technologies. The project focuses on the identification, mapping, and classification of Trees outside Forests (TOF) across Assam, along with the assessment of above-ground biomass and carbon stocks in selected 6 districts representing the State's major agro-climatic zones.

A key component of the project involves agro-climatic zone-wise site suitability analysis for prioritized agro-silvicultural species by integrating multiple biophysical and environmental parameters. To support scientific planning and decision-making, a GIS-based Spatial Decision Support System (SDSS) is being developed for the identification and management of potential gap plantation sites at the district level.

vi) Mapping Trees Outside Forest (TOF): Site Suitability for Commercially Important Trees and Carbon Stock Assessment in the State of Assam : Agro forestry Board, Govt. of Assam

The project aims to strengthen agro forestry planning and sustainable land management through the application of Remote Sensing and GIS technologies. The project focuses on the identification, mapping, and classification of Trees Outside Forests (TOF) across Assam, along with the assessment of above-ground biomass and carbon stocks in selected 6 districts representing the State's major agro-climatic zones.

A key component of the project involves agro-climatic zone-wise site suitability analysis for prioritized agro-silvicultural species by integrating multiple biophysical and environmental parameters. To support scientific planning and decision-making, a GIS-based Spatial Decision Support System (SDSS) is being developed for the identification and management of potential gap plantation sites at the district level.

Inhouse Projects :

vii) Remote Sensing & GIS Based Technical Inputs For Interstate Border Dispute Management Along Assam-Arunachal Pradesh Interstate Boundary

On demand from the dept. of Border Area Protection and Development, Govt. of Assam a study was conducted and output was submitted to the department. The basic aims of the study to delineate and mapping of built-up areas around 68 Nos. disputed sites inside Assam territory and to delineate the

built-up areas around 13 Nos. of disputed sites spreading both sides of Assam and Arunachal Pradesh. Land use change analysis for 2008 and 2022 was carried and submitted to the concerned Department.

viii) UAV Survey of the proposed buffer area of the nominated property of the MOIDAMS in the Charaideo district of Assam for the UNESCO Heritage SITE

UAV was used to carry out the survey over the Moidams with an area of 8.5 Sq km to generate Ortho-Mosaic Map, Land Use Land Cover Map, Contour Map, North-South and East West Cross section Maps and Digital Elevation Model. The report along with the maps and shape files has been submitted to Directorate of Archaeology, Government of Assam for their further submission to designate the Nominated Property of the Moidams of Charaideo District for the UNESCO Heritage site. Submitted to Directorate of Archaeology, this was further used for nominating the Moidams as UNESCO world Heritage site.

ix) Hailstorm Damage Assessment Survey of Loonpuria Kaibarta, Ukonimuria Kachari & Chotohapjan Villages in Tinsukia District of Assam using UAV

The objective of the project is to capture detailed images of the damages caused by the Hail storms using UAV to create a high-resolution Damage map of the site & to derive statistics of total number of household in the surveyed village and to access the number of households damaged due to the Hail storm.

The Report has been submitted to District Administration of Tinsukia, Govt. of Assam for their assessment and verification from Ground based official damage report.

x) A DRONE-based assessment of Guwahati Water Logging Area for the year 2023 and 2024

The objective of the project is to delineate the certain waterlogged areas of Guwahati using UAV derived image and to derive statistics of waterlogged roads along with the Digital Surface Model and assess road depressions. The Project was undertaken in both 2023 & 2024 after incessant rainfall in Guwahati. The Report has been submitted to various Line Departments.

xi) UAV mapping of Jaha Jaan in Nalbari District for encroachment study

The Objective of the Project was to map the 25 km Long Jaha jaan flowing from Nalbari Town to the Brahmaputra River using UAV and to capture High Resolution Images to see for any encroachment or Blockage of the Jaan.

The Data Captured via UAV was shared to the District Administration of Nalbari and which was further shared to IIT Guwahati for further Analysis.

xii) Assessment of hill cutting in Khanapara - Jorabat Area of Meghalaya State

The objective of the project is to explore site condition with High resolution satellite imagery of the Hill cutting sites in Meghalaya along the Assam-Meghalaya border in Khanapara & Jorabat Area during the time period 2016 to 2023.

The Report has been submitted to the CMO, Assam and based on the report a notification has been sent to CMO, Meghalaya for investigation

xiii) Assessment of highest flood level in Deepor Beel of Assam (2014-2023)

The objective of the project is to demarcate the highest water spread combining the years from 2014 to 2023 and finally derive the Highest Flood Level of the Deepor Beel. Sentinel 1 Microwave data was used to demarcate the Highest Flood Inundation for each year and the flood layer from each year was combined to produce the Highest Flood Level in last 8 years.

The Report has been submitted to Guwahati Wildlife Division, Assam Forest Department for their further use to bring out regulatory policy on land use.

Projects/Schemes sponsored by NRSC, ISRO and NESAC Government of India are:

1. Space Based Information Support For Decentralized Planning (SIS-DP)-Update

Phase I completed in 2015. Current project: Phase II preparation of large scale (1:10,000) satellite database land use / land cover and high resolution satellite data mosaic for decision making at Panchayat level using 2017 to 2019 data and completed in 2023.

The database is being integrated at ISRO level for the whole country and released through Bhuvan portal (bhuvan.nrsc.gov.in)

2. Monitoring of Integrated Watershed Programme (IWMP) Using Geospatial Technology-PH-II

Project Summary:

The objectives are to monitor using satellite image in periodic year against the intervention by Soil

Conservation Department for projects undertaken in specific Batch under IWMP and to generate change analysis of Landuse Land cover of IWMP project site using multi date LISS 1V /Cartosat -1/ Sentinel-2 & Landsat-8 satellite image in periodic basis & to verify the Drishti points Uploaded in Bhuvan Portal. 293 micro watershed covered by Soil Conservation Department in 5(five) batches are monitored and verified with drishti points uploaded BHUVAN Geo portal. The project benefitted the Ministry of Rural Development

3. National Wetland Inventory And Assessment (NWIA) Phase-II

Realizing the importance of wetlands, the Ministry of Environment, Forests and Climate Change (MoEF&CC), Government of India, initiated the National Wetland Inventory and Assessment (NWIA) project using remote sensing technique and a state wide database on wetland was created on GIS environment. The NWIA Phase I was carried out using 2006-07 time frame satellite data and completed on the year 2010.

The NWIA Phase II aims at Updation of Wetland Inventory of Assam at 1:50,000 scale using Resourcesat LISS-III data of 2017-18 period, using the existing Wetland Inventory of 2006-07 period, as base layer and analyzing the changes in the wetlands of the state with respect to number, shape and size. Preparation of Wetland Inventory and creation of a GIS database at 1:25,000 scale using Resourcesat LISS-IV data of timeframe 2017-18 are also done to facilitate data retrieval at the desired level using Information system module developed under VEDAS portal at SAC, ISRO.

4. Forecasting Agricultural Output Using Space, Agro-Meteorology And Land Based Observations (FASAL-2):

It is one of the oldest ongoing projects of ASSAC which has been involving for pre harvest acreage and production estimation of Kharif rice for entire state and Jute for selected jute growing districts of Assam. Pre harvest crop acreage and production estimation is done by using multi-date AWIFS/ Sentinel-2/Landsat-8 & multi date Sentinel-1A SAR Data. Semi-physical Remote sensing based model, Remote sensing Index based yield model, Correlation weighted district level, Agromet level, Crop stimulation model by IMD, and Data obtained from Crop Cutting Experiment are used for acreage and production estimation. As this project is sponsored by the Mahalanobis National Crop Forecast Centre (MNCFC), New Delhi, under the Ministry of Agriculture and Farmers' Welfare, the data generated through the project are utilized for agricultural planning and estimation of the nation's Gross Domestic Product (GDP).

5. Forest Biomass Estimate in Pilot Mode Using Microwave Satellite Data Under NISAR Program

It is a R&D project. Ten forest sample sites selected and enumerated in west Karbi Anglong district to estimate the forest biomass estimation. ISRO and NASA launched NISAR microwave satellite and it will help in biomass estimation scientifically and indirectly help in carbon stock assessment. Project is ongoing.

6. Landslide Inventory Mapping For Post Monsoon 2023 For Assam

The objective of the project is to develop a comprehensive landslide database for the state. As a pilot study for the year 2023 to model and generate alerts using AI/ML techniques under the project called SILAAS (Satellite Integrated Landslide Assessment and Alert System). Mobile App named FILM developed by NRSC is used for field data collection. The mapping covered seven districts of Assam, across 52 Survey of India grids (1:50,000 scale), identifying 59 landslide locations post analysis and after external quality checks. Reports submitted to NRSC, ISRO.

B. Assam Science Technology & Environment Council (ASTEC)

1. Research & Development Programme:

Assam Science Technology and Environment Council (ASTEC) has been initiating and supporting Research & Development Programme in selected areas which are related to location specific problems and in the emerging areas of agriculture, horticulture, sericulture, health and nutrition. Pure and basic research in science and engineering are also supported under this scheme.

The objectives of the R&D Programme are to promote research and development projects related to resource development, management, and utilization, as well as technologies that promote efficient use

and conservation of resources, including conventional and non-conventional energy sources. It also aims to encourage young scientists and technologists in the state to pursue R&D activities.

During 2025-26, the following activities are taken up under the R&D programme: Call for proposals were completed and projects received are under review

2. Aryabhata Science Centre (Block Level) under Popularization of science:

219 Aryabhata Science Centre (Block Level) were set up in schools, colleges, and NGOs one in each Development Blocks of the state in the year 2008. The centres are equipped with scientific instruments, tools, kits, scientific films with audio visual systems, books, telescope, DLP Projectors, Portable Sound Systems and a book on Herbal Medicine etc. for carrying out science and technology-based activities for the benefit of students, teachers and common people. Block level, District Level and State Level activities with science-based poster drawing competition, Model making competition, extempore speech competition and Idea Competition are the regular activities of the state. Apart from these observations, National Science Day, National Mathematics Day, World Environment Day, National Technology Day organizing Raji Mel, participation in National Children Congress Science, Mathematics Olympiad, grooming and mentoring etc. are the regular activities of the centres. The telescopes provided to the centres are helping the students and common people to observe the phenomena of celestial bodies. These centres as a whole are functioning as a science, technology and innovation hub at the grass root level covering the entire remote areas of the state. It is observed that there is a continuous rise in the participation of students, teachers and common people involved in the block level competitions held by the Aryabhata Science Centres situated in all the blocks. It is seen that the participation of students from the year 2008 to 2025 increased from 32,707 to that of 14,5220. Similarly, involvement of teachers and common people from the year 2008 to 2025 increased from 3,591 to 27,452 and 8,135 to 28,907 respectively. It is observed that there is a sudden rise in participation of students and teachers in the year 2019 as there was an awareness program “Raji Mel” that was organized by the council which is to eradicate superstition from the society, along with a series of science-focused programs such as NSD, NTD, NMD, and Bigyan Anusandhan. It can also be seen that there is some deviation of the variables from the trend line in some particular years but it is evident from the charts that every year there is a rise in the participation of students, teachers and common people. This year Robotics competition has been introduced among the students in the Aryabhata Science Centres where participation has increased considerably. 5 No.s of Robotics Club have been established at 5 Aryabhata Science Centres in collaboration with IIT Guwahati.

3. Patent Information Centre (PIC):

PIC-Assam is an all-inclusive Intellectual Property Rights (IPR) facilitation Centre in the public domain since 2003. The PIC extends support to the inventors/innovators in registering their Intellectual Property (IP) and creates awareness on IPR. The Centre provides guidance and encouragement to state innovators for getting Patents for their inventions. The PIC also supports people in securing protection for other IPs like Trademark, Design, Copyright, Geographical Indication (GI) etc. The Centre serves as a resource body for workshops, seminars, refresher courses, training etc. at state, national and international levels. Its stakeholders are grass-root level innovators, researchers, academicians from Universities, IITs, NITs, Engineering colleges, Research Institutes, entrepreneurs, Government Departments, start-ups etc.

PIC has filed more than 100 Patents out of which more than 25 Patents were granted till now. Around 350 Patent Searches have been conducted till date. Apart from Patents, more than 50 other IPRs (Copyright, Design, Trademark, GI) have been registered. It has sensitized more than 71,000 people in IPR through 400+ workshops, seminars, lectures etc. organized. 20 nos. of IPR Cells have been established by PIC in the colleges/universities/institutions of the state. The PIC is the state nodal agency for GI filing and is the registered proprietor of GI-Muga Silk of Assam. In recent times, PIC has facilitated the GI registration of ‘Boka Chaul’ and ‘Gamosa of Assam’. In recognition of the activities of PIC-Assam, it was conferred “National IP Awards- 2020” as the “Best PIC” in the country by DPIIT, Ministry of Commerce & Industry, Government of India and Intellectual Property Office, Government of India on 17th August, 2021.

During the FY 2025-2026, activities performed are as follows:

Sl. No.	Items	F.Y. 2025-26
1	IPR Workshops/ Camps/ Meetings	8
2	Patent filed	3
3	Patent granted	--
4	Industrial Design applied	--
5	Industrial Design registered	2
6	Trademarks applied	--
7	Copyright applied	--
8	Geographical Indications application FCR issued and replied to	2 [GI Application No.1493 & 1497]
Additional Activities		
9	Patent Searches conducted	7
10	GI Authorised User applications filed	130 (GI No.55-Muga Silk of Assam)
11	Industrial Design application hearing	2
12	Total Visitors to PIC Regarding IPR Support	65+
13	Total People Sensitized Workshops & IPR Camps	300+

Workshops / meetings - supported/organized by PIC-ASTEC:

19 th May, 2025	“Meeting on Authorised User Registration of Assamese Jewellery” organized by Patent Information Centre, ASTEC at Bigyan Bhawan
27 th May, 2025	Delivered a lecture on GI and relevant topics and had an interaction with the participants at the “Awareness Generation Program Amongst Assam Jaapi Artisan in Nalbari District” sponsored by Assam Science Technology and Environment Council and organized by Navodaya Handicrafts & Handloom Development Society Nalbari, Assam.
31 st July, 2025	Discussion on selection of GI Products for Development of Sustainable Green Packaging Solutions organized by PIC, ASTEC at Bigyan Bhawan.
10 th October, 2025	Delivered a lecture on “Intellectual Property Rights- Copyright and Patents” at the Faculty Improvement Programme (FIP) on Cutting Edge Research in the Light of NEP 2020 organised by Jagiroad College (Autonomous) at the college premises
19 th December, 2025	Attended a ‘Meeting on GI Registration of Products of the Deori Community’ organized by the Deori Sahitya Sabha (Deori Chucheba Chenchha) with support from PIC, ASTEC at Dibrugarh University.
29 th January, 2026	Delivered a lecture on ‘Geographical Indication of Goods (Registration & Protection) Act, 1999’ at the Training Programme under the Scheme “Protection of Handloom & Implementation of the Handlooms (RAP) Act, 1985 organised by Directorate of Handloom & Textiles, Assam at Taj Vivanta, Khanapara
9th March 2026	Delivered a lecture on “IPR filing: Bridging the gap between discovery and property” at the industry–Academia Meet 2026 organised by the Department of Biotechnology, Gauhati University.
19 th March, 2026	A meeting on GI Registration of Cane Fan of Auniati Satra, Majuli and indigenous products of Karbi Anglong organized by PIC, ASTEC at Bigyan Bhawan premises

Success Stories under Patent Information Centre:



**Design Application No.395195-001-
Applicant: Dr. Gayatri Gogoi**

4. Mentoring Programme (CM's Bigyan Pratibha Sandhan):

No fund received during the year 2025-26.

The "Mentoring Programme (CM's Bigyan Pratibha Sandhan)" scheme of Science, Technology and Climate Change Dept., Govt. of Assam implemented by Assam Science Technology and Environment Council (ASTEC) endeavours to identify and nurture young scientific talents starting from the secondary level through a rigorous selection process. Recognizing the extraordinary potential of students exhibiting curiosity, innovation, and research inclination at an early age, the initiative aims to bridge the gap between talent and opportunity. The program focuses on identifying **100** exceptionally talented students at the Class XI level and providing them with tailored exposure and mentoring opportunities in renowned institutions across the state, country, and internationally.

This year 40 students are selected and successfully conducted 5-day Mentoring Programme from 04-08 August 2025 at IIT Guwahati. The 2nd stage of the mentoring programme was held at Bengaluru, in collaboration with the Karnataka State Council for Science & Technology (KSCST) from 18-22 August 2025 which includes visit to IISc, Bengaluru, Department of Aerospace / CeNSE / Centre for Brain Research, U R Rao Satellite Centre, ISRO, JNCASR etc. 3 best students are chosen to visit an internationally renowned scientific institution of Cambridge and Oxford Universities like Trinity College, Wincoster College, St John's, King's etc. and also various laboratories of University College London and Imperial College London from 12 October to 18 October 2025

5. Green Innovation Fund:

No fund received during the year 2025-26.

The Green innovation fund is a newly introduced scheme by the Govt. of Assam as per the Assam Budget F.Y. 2023-24. It is targeted to promote green technology-based innovations in the state which aims to strengthen and improve the R&D ecosystem to find solutions to locality specific problems in focused areas like climate vulnerabilities, traditional knowledge-based technologies, disruptive

technologies, eco-tourism, and climate friendly agriculture techniques. It further focused on enhancing the scientific temperament of the state's populace through capacity building and awareness generation amongst students & common people of the state. In addition, it will also help in strengthening the start-up culture of the state, especially in green technology and innovation sector.

During 2025-26, the major activities under the programme:

- The advertisement for the call for proposals under the Research and innovation specific components were published. A total of 107 nos. of proposals were received which were thoroughly reviewed by the Research Advisory and Review Committee and recommended 21 nos. of proposals to the steering committee for further evaluation.
- The review of the shortlisted proposals has been completed by the Steering Committee & also further reviewed by the Hon'ble Minister, ST &CC Dept., Govt. of Assam. Based upon their presentations, a total of 9 project proposals were recommended for support.

During 2025-26, the major activities under the programme:

As per the budget announcement for the F.Y. 2025-26, under the Green Innovation Fund, the main emphasis has been given upon the research and development in sustainable packaging solutions. In this regard, the Council is currently exploring the sustainable packaging solutions for G.I. products of the state, e.g. Boka Chaul, Bodo Napham, joha rice of Assam, Judima, etc. for an environmentally sustainable, reliable, and cost-efficient packaging which enhances brand reputation of the product. In this regard, a Joint Meeting of Steering Committee (SC) and Research Advisory and Review Committee (RARC) for Green Innovation Fund has been held on 6th Sept., 2025 for the review of proposal received from

Indian Institute of Packaging, Kolkata. Under ongoing Green Innovative Projects, as per a project supported to The Assam Kaziranga University, a solar tree (Surya Taru) has been commissioned and installed at Jorhat Science Centre and Planetarium.

6. Promotion of Science, Technology and Innovation:

No fund received during the year 2025-26.

Under the scheme, there are four different programmes namely,

(i) Innovation, Technology Generation and Awareness which encourage innovation in the state by providing financial and technical support especially the grass root level innovators and guides to obtain patents under the programme.

(ii) Students Science Projects which provides opportunities to young scientists for pursuing existing and innovative research ideas in the field of basic science and applied science.

(iii) Science Connect which helps in strengthening science education and location specific scientific environment in the state. Popular Talks, Scientific Seminar, Workshop which create an environment for scientific discourses and also helps to inculcate scientific temper among grass root level policy makers who could play a catalytic role in overall societal development and

(iv) Conservation of Rare endangered and Threatened Species of Plants which helps in Mass propagation of *Rhynchostylis retusa* (L) Blume, i.e. Foxtail orchid, for conservation and Education and Awareness on RET Plants.

7. National Science Day and State Science Award:

The Government has initiated the conferment of three Science Awards in three categories in the field of science and science popularization on the occasion of National Science Day to eminent scientists, young scientists and organizations since 2017. For the year 2024 and 2025 the screening and selection of the nominees completed and the names of the awardees declared on 28th February 2025 on the occasion of National Science Day 2025. Award conferred for the awardees under three (3) categories completed for the years 2024 and 2025 on 28 November 2025. Further, call for nominations for the three (3) categories for the year 2026 are received.

8. Science & Mathematics Facilitators in Schools under Popularization of Science:

The basic objective of the scheme is to improve and inculcate the method of Science and Mathematics teaching in schools of the state and to build up a pool of innovative Mathematics and Science Teachers to act as facilitators and to create interest in Mathematics and Science teaching in schools. With the help of the facilitators, the students have raised interest in these two subjects which motivated them to

take up different challenges in a more practical approach. Presently 28 Science Facilitators and 37 Mathematics Facilitators have been engaged in 56 High and Higher Secondary schools of the state. The facilitators have also received positive feedback from the principals/headmasters of the respective schools for providing meaningful and explanatory rationale to the students.

State Cabinet has approved continuation of services of Science and Mathematics Facilitators engaged through ASTEC on fixed pay basis till attaining the age of 60 years with annual enhancement of 5 percent.

B. Schemes under Environment Division

9. District and State level Children's Science Congress:

National Children Science Congress (NCSC) is a National Level programme of Department of Science and Technology, Govt. of India and is organised in Assam through ASTEC. Children of the age group 10-17 years both from formal school system as well as from outside of school participate through mini research projects first at district level. Selected participants from district level take part in State Level and then in National Level. The Children Science Congress is not only a platform but also a process to transform children to be able to develop the spirit of science and ability to apply methods of science in their day-to-day lives. The State Level Congress was held at Don Bosco Sr. Secondary School & Haflong Govt. College, Haflong, Dima Hasao during 08-11 November, 2023. At the State level 260 projects were registered from 31 districts. 26 projects were selected as best projects at the State level and these projects represented Assam at the National Level held at Bhopal during 3-8 January, 2025. Among the projects presented at the National Level, 1 project was selected among the 20 outstanding Projects presented. The programme was not held during the year 2025-26 and no funds were received from Govt. of Assam.

10. School Plant Diversity Centre:

This scheme primarily aims to set up School Plant Diversity Centres (SPDCs) in Assam with the development of School Botanical Garden with academic facilities like herbarium and museum. The centres are providing quality education to children and youths on plant sciences besides activities such as planting of endemic, threatened plant species and plants of high economic importance involving students, teachers and local people. Till date 35 SPDCs have been established covering all 35 districts.

11. Assam Bio-resource Centre (ABRC):

The Assam Bio-Resource Centre (ABRC) was established by ASTEC near the historic Madan Kamdev temple in Baihata Chariali during 1994-95, covering an area of 55 Bighas. The primary objective of the Centre is to conserve biotic resources of ecological and economic significance while also conducting research and development in the field of life sciences.

The key objectives of the Centre include:

1. **Conservation of Rare, Endangered, and Threatened (RET) plant species** native to Assam and the Northeast region, including those of high economic value.
2. **Enrichment and development** of a botanical garden, conservatories, a herbarium, and a museum.

Serving as both a knowledge hub on plant life and a center for conservation, the ABRC benefits students, researchers, teachers, and the general public by providing valuable facilities and resources. Additionally, the Centre actively promotes awareness about biodiversity conservation through nature trails, field visits, and seminars. Around 70 orchid species, 42 species of cactus, 26 species of bamboo, 155 medicinal plants and 350 live plant species are being maintained in the garden and conservatories.

12. Science Centre and Planetariums in Assam (Capital):

A total of 23 District Science Centres are proposed to be established across Assam, including those currently under construction. In the first phase, 11 District Science Centres were taken up with the objective of fostering interest in astronomy and promoting scientific awareness among the public.

These centres are envisioned to nurture scientific temper through hands-on activities, interactive exhibits, science shows, and outreach and awareness programmes.

The physical and financial status of the District Science Centres and Planetariums is enclosed as Annexure.

At present, the construction of the remaining 11 District Science Centres is on hold following the termination of the contract of the executing agency by the PWD (Buildings). The PWD (Buildings) is in the process of preparing revised tender documents for completion of these projects.

Meanwhile, five District Science Centre and Planetarium (DSCP)—Amingaon, Majuli, Bongaigaon, Kaliabor, and Silchar have been inaugurated. These centres are expected to significantly strengthen Assam's science education infrastructure and play a vital role in promoting scientific temper, innovation, and public engagement with science across the State.

13. Vertical Extension of Bigyan Bhawan Building

The construction of Bigyan Bhawan is in progress. The Directorate of science & Technology has been shifted to the fourth floor of the building vide order of the Hon'ble Minister, Science Technology & Climate Change, Assam. The work for the 3rd floor is almost completed and the ASSAC office shifted. The work for the 2nd floor has been completed.

14. Climate Cell:

Climate Cell is dedicated to addressing climate change challenges in Assam by integrating traditional knowledge with scientific approaches. It focuses on identifying and documenting indigenous practices related to climate mitigation and adaptation while assessing the vulnerability of various sectors to climate change. The cell actively promotes climate-related scientific temperament among students, teachers, and grassroots stakeholders through hands-on activities and awareness programs. Additionally, it encourages climate mitigation efforts through carbon sequestration initiatives and works towards building climate resilience in villages. To further its outreach and impact, the Climate Cell also develops Information, Education, and Communication (IEC) materials on climate change, ensuring informed decision-making and sustainable action across all levels of society. During last years, various activities like a comprehensive study and documentation of traditional knowledge systems and practices in Assam were conducted, with a special focus on climate adaptation and resilience. Additionally, ASTEC successfully implemented a wide range of activities aimed at strengthening climate change adaptation, resilience, awareness, capacity building, and policy support in the State. Major accomplishments included the study and documentation of traditional knowledge systems and practices in Assam with special reference to climate adaptation and resilience, capacity-building programmes for government officials on climate change; development of audio-visual educational materials for integration into school curricula; review and analysis of existing State and departmental policies through a climate change lens; climate change outreach programmes across the four agro-climatic zones of Assam; implementation of a six-month certificate course on climate change in collaboration with a reputed educational institution; Information, Education and Communication (IEC) initiatives through workshops, seminars and awareness materials; an Internship Programme on Climate Change; thereby contributing significantly towards strengthening climate action and institutional capacity in Assam.

15. Chief Minister's Climate Resilient Village Fellowship Programme:

The "Chief Minister's Climate Resilient Village Fellowship programme"(CMCRVF) is also being implemented now through Climate Cell. The CMCRVF project aims to find solutions for developing climate-resilient villages in Assam. Post-graduate students are selected for this Fellowship programme and they collect data related to impact of climate change in village level and accordingly design model interventions for creating climate resilience in that village under guidance of assigned scientific institutions. The study has two components- A baseline survey of the village regarding climate change impact, biodiversity, environment, etc. and scientific interventions as a model for building climate resilient village. In the second batch, 38 Fellows have completed their work and submitted the reports.

16. Sadou Asom Maina Parijat (Maina Act on Environment, Health and Hygiene) – A Children’s participatory activities – based initiatives to enhance the awareness and understanding on conserving biodiversity, water along with health care and hygienic sanitation:

The objective of the scheme is to (i). Involve children in discovering biodiversity and environment change of season and its impact on environment, (ii). To generate sense of curiosity among children by participatory and community approach in understanding roles of species in ecosystems, (iii). To understand the source, usage and importance in conservation of water, the impact of food for good health, domestic hygiene and (iv). To understand the importance of “Swachh Bharat Abhiyaan.” The scheme has been implemented by ASTEC through Sadou Asom Maina Parijat targeting children from 5 to 16 years of age and adolescent upto 18 years of age covering all the branches of Maina Parijat (Children Club) of Assam. A sum of Rs.9.5 lakh only was sanctioned for the FY 2025-26.

17. Science Centre & Planetarium in Assam (Revenue):

The scheme is basically aimed to run and maintain the Science Centre and Planetariums in Assam as well as organising sensitization workshops and awareness programmes. The basic objectives of the scheme are development and maintenance of DSCPs including Nalbari, North Lakhimpur and Kokrajhar centres. Meanwhile 3 instalments to Innovation Hub at Jorhat Science Centre and Planetarium has already been released as per agreement with NCSM. Promotion and popularization of science and technology among the masses, dissemination of information on recent development in the field of science and technology and facilitating as Science Hubs are some of the prime objectives. The DSCs and DSCPs besides Innovation Hub act as district level entities for promotion and popularization of science and technology among students, teachers and general public.

18. Science Centre & Planetariums in Kokrajhar, Nalbari and Lakhimpur:

The basic aim of this scheme is to establish Science Centre and Planetariums in Kokrajhar, Nalbari and North Lakhimpur for the benefit of the common people and especially the students. All the three centres have been inaugurated by Hon’ble Chief Minister of the state. Some additional civil and other related works like internal approach roads, gardens etc are on-going in the centre.

19. Climate Centre

During the Assam Budget Speech for FY 2025-26, an allocation of ₹25 crore was announced for the establishment of a Sustainable Net Zero Climate Centre in Assam. The proposal has since received the approval of the Hon'ble Chief Minister, and a fresh proposal with a budget allocation of ₹5 crore is being submitted for FY 2026-27. The Centre is proposed to be established at the Science City Campus, Tapesia, Guwahati, as a state-of-the-art facility promoting climate education, research, innovation, capacity building, and policy support. Designed as Assam's first net-zero sustainable building, it will showcase renewable energy, water conservation, and sustainable waste management practices while serving as a hub for public awareness, climate research, and collaborative initiatives to strengthen climate resilience and sustainable development in the State.

C. Assam Energy Development Agency

AEDA has undertaken PM-KUSUM (Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhiyan) – Component B scheme of MNRE, Govt. of India in the State. Under this Component, the farmers are supported for installation of standalone Solar pumps or replacement of existing diesel pumps systems in off-grid areas, where grid supply is not available. Priority has been given to small and marginal farmers and farmers using micro irrigation. The scheme aims to increase farmer income and provide easy access to irrigation through solar powered pumping systems.

Under the PM-KUSUM scheme from the Ministry of New & Renewable Energy (MNRE), execution of 1,695 units of 2HP DC Solar Water Pumps across Assam was carried out by AEDA.

This scheme offers a combined Central and State subsidy exceeding 85% of the total execution cost. The initiative provides farmers with reliable irrigation power, no diesel operating costs, and improves agricultural productivity throughout the state along with zero emissions

D. Guwahati Biotech Park (GBP)

GBP has secured several flagship programmes of the Government of India, including:

- DST-NIDHI PRAYAS Centre (₹1.69 crore) to support proof-of-concept development for early-stage innovators.
- Business Incubation Centre for Fisheries and Aquaculture (BICFA) under PMMSY (₹2.99 crore) to promote entrepreneurship in fisheries and aquaculture through incubation, technology transfer, consultancy, IPR support, and pilot-scale packaging facilities.
- Regional Honey Testing Laboratory (RHTL) under the National Beekeeping and Honey Mission (₹5.51 crore) to provide honey quality testing, export certification, traceability, and beekeeper support across the North Eastern Region. RHTL has received ₹62.45 Lakhs from Government of Assam as State Share
- Recognition as a Host Institute under the MSME Innovative Scheme, enabling financial assistance of up to ₹15 lakh per startup and eligibility to seek up to ₹1 crore for strengthening common R&D and incubation infrastructure.
- Establishment of a Skill Satellite Centre under the Technology Development and Utilization Programme for Women (TDUPW) supported by DSIR, Government of India, with a project outlay of ₹63.36 lakh to promote women's entrepreneurship and skill development in biotechnology and allied sectors.

E. Guwahati Planetarium

Multi-Activity Centre at Guwahati Planetarium

Construction of the Multi-Activity Centre (G+3 Building) at the Guwahati Planetarium is progressing steadily for the benefit of students, children, and the general public. The Government has accorded Administrative Approval of ₹12.43 crore for the construction of the building. The civil works have been completed up to approximately 80%.

In addition, the Government has sanctioned ₹4.94 crore for supplementary works, including the installation of a Central Air Conditioning (AC) system, structural glazing, acoustic treatment, and a fire-fighting system.

Furthermore, Administrative Approval of ₹4.60 crore has been granted for the installation and commissioning of a 15-D Theatre, along with façade lighting and external lighting, to enhance the Planetarium's infrastructure and provide visitors with a modern and immersive educational experience.

New Initiatives of Guwahati Planetarium

To sustain and enhance public interest in astronomy and space science, particularly among students, the Guwahati Planetarium is undertaking several new initiatives aimed at modernizing its facilities and expanding public outreach.

A state-of-the-art sound system and cove lighting will be installed in the Sky Theatre to provide visitors with a more immersive and engaging experience. In addition, the Planetarium will be equipped with a high-resolution digital projection system incorporating the latest technological advancements, significantly improving the quality of astronomical presentations and educational programmes.

The Planetarium will also organize regular sky-watch observation programmes to enable students, teachers, amateur astronomers, and the general public to observe significant astronomical events such as solar and lunar eclipses, planetary conjunctions, meteor showers, comet appearances, and other notable celestial phenomena through telescopes under expert guidance.

These initiatives are expected to strengthen science education and research, promote astronomy awareness, support science tourism, enhance the visitor experience, and contribute to revenue generation. They will also play a vital role in fostering a scientific temperament among the people of Assam, especially students, teachers, and children, by encouraging curiosity and appreciation of the universe through experiential learning.

PERFORMANCE BUDGET OF SCIENCE & TECHNOLOGY DEPARTMENT FOR THE FINANCIAL YEAR 2025-26 AGAINST GRANT NO. 69

Sl. No.	Name of Scheme	Released Amount (Rs. in lakhs)
1.	Research and Development	62.00
2.	Guwahati Bio-Tech Park	70.00
3.	National Science Day	95.00
4.	Arya Bhatta Science Centre	309.70
5.	Climate cell	71.25
6.	School Plant Diversity Centre	2.85
7.	Science & Math's Facilitators	260.36140
8.	Bio-Resource Centre	28.50
9.	Assam Science Society	14.00
10.	Patent Information centre	14.25
11.	Science City	19.00
12.	Maina Parijat	9.50
13.	Research and Development Lab	23.75
14.	Directorate of Science & Technology IT Purchase	5.01501
15.	Guwahati Planetarium Multi-Activity Centre	171.44834
16.	11 District Science Centre	178.60909
17.	Business Enterprise Zone	379.98296
18.	Technology Incubation Centre	373.78500
19.	Setting Up of New Planetarium Nalbari, North Lakhimpur, Kokrajhar and other Places	146.21454
20.	Science City (Capital)	1235.14647
21.	New Planetarium At Six Location	712.47778
22.	PM KUSSUM	122.82040
23.	Honet Testing Lab	62.75
24.	Salary Of Directorate of Science & Technology	58.03708
25.	Bigyan Bhawan Electricity & Water Charge	20.33302
26.	Directorate of Science & Technology office Stationery	0.49023
27.	POL	0.41
28.	Directorate of Science & Technology Consultancy Fees	0.56050
29.	Guwahati Planetarium Salary	89.04014
30.	Guwahati Planetarium Wages	16.79730
31.	Guwahati Planetarium Electricity	10.13083
32.	Guwahati Planetarium Maintenance of Machinery & Equipment	2.48411
33.	Jorhat Planetarium & Science Centre(salary)	47.97
34.	Environment Division Salary	44.59
35.	Assam Science Technology and environment Council Salary	97.87
36.	Assam State Space Application centre Salary	273.03
37.	Assam State Space Application centre non-Salary	100.00
38.	Biotech Park Salary	71.30
39.	BIO GAS salary	9.59732
40.	Assam Energy development Agency	64.28
	TOTAL	5275.3287

PHYSICAL TARGETS ACHIEVED DURING THE LAST THREE YEARS

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
1	Research & Development programme	Support to 7 Nos. of student specific R&D projects and 13 Nos. of General R&D projects	Fund received and has to be utilized for the already sanctioned projects.	Call for proposals were completed and projects received are under review
2	Patent Information Centre (PIC)	Details in list (Annexure-I)	Details in list (Annexure-II)	(i) Two no.s of Geographical Indications (GI) applications' FCR issued and replied to (ii) Eight no.s of IPR workshops conducted
3	Aryabhata Science Centre (Block level)	219 Block Level Aryabhata Science Centres established in 219 Development Block of the state are functioning as science hub in grass root level of the state	Idea Competition and Robotics Competition have been introduced among the students in the 219 Aryabhata Science Centres yearly competition to make the centre more vibrant.	(i) In the sector of promoting Scientific literacy, Science and Technology based books are published in the vernacular medium for the masses. (ii) 5 No.s of Robotics Club have been established at 5 Aryabhata Science Centres in collaboration with IIT Guwahati. Moreover, the District and Block coordinators of all the Aryabhata Science Centres are involved in promoting overall Science, Technology and Innovation (STI) innovation of the state.
4	Science & Mathematics Facilitators in Schools	28 Science Facilitators and 37 Mathematics Facilitators (total 65) have been engaged in 56 High and Higher Secondary schools of the state and district science centres and planetarium	28 Science Facilitators and 37 Mathematics Facilitators (total 65) have been engaged in 56 High and Higher Secondary	65 Science and Mathematics Facilitators have been engaged in 56 High and Higher Secondary schools of the state and district science centres and planetarium to improve the method of

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
			schools of the state and district science centres and planetarium to improve the method of science and mathematics teachings at school.	science and mathematics teachings at school
5	National Science Day and State Science Award	Awards for 2021-22 and 2022-23 completed in three (3) categories and declared on National Technology Day-2023 (11-05-2023)	Selection of awardees under three (3) categories completed for the 2024 and 2025.	Award conferred for the awardees under three (3) categories completed for the years 2024 and 2025 on 28 November 2025. Further, call for nominations for the three (3) categories for the year 2026 are received.
6	Promotion of Science Technology and Innovation	7 nos. of innovative projects supported 18 nos. of student science project supported. Regarding Science connect, financial support for 3 nos of Seminars and 4 nos of Workshop 2 Workshops under RET organised	Proposal for FY 24-25 has been submitted to Govt. of Assam for release of Fund.	Support to ongoing Innovation Technology Generation and Awareness Schemes (ITGA)
7	Green Innovation Fund	-	The review of the shortlisted proposals has been completed by the Steering Committee & also further reviewed by the Hon'ble Minister, ST &CC Dept., Govt. of	(i) As per budget announcement, this year the main emphasis has been given upon the research and development in sustainable packaging solutions. In this regard, a Joint Meeting of Steering Committee (SC) and Research Advisory and Review

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
			Assam. Based upon their presentations, a total of 9 project proposals were recommended for support	Committee (RARC) for Green Innovation Fund has been held on 6 th Sept., 2025 for the review of proposals received from Indian Institute of Packaging, Kolkata. (ii) Under ongoing Green Innovative Projects, as per a project supported to The Assam Kaziranga University, a solar tree (Surya Taru) has been commissioned and installed at Jorhat Science Centre and Planetarium.
8	Climate Cell	Conducted study on block level vulnerability assessment in Dhubri, Tinsukia and Darrang District, and documentation of traditional practices with Special reference to Climate Change; conducted 3 training programmes for farmers on Bio fertilizers; conducted 1 training for College Teachers on integration of Climate change in the curriculum, developed two books on Green Audit and Career in Climate Change.	No fund received for FY 24-25.	Implemented several key initiatives like capacity building, and policy review in Assam. These included documentation of traditional knowledge systems, capacity-building programmes for SC/ST Council Officers, policy review, climate outreach, development of IEC material, a Professional Diploma course in Climate Change with Gauhati University and internship programme on climate change, and essential project support, significantly contributing to the State's climate action efforts, in alignment of SAPCC2.0.
9	School Plant Diversity Centre	Setting up of 5 Nos of Green Houses in 5 School Plant	No allocation of fund	

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
		Diversity Centres		
10	District & State Level National Children Congress	(i)No. of children to be involved: 5451 (ii)No. of District Level Congress: 31 (iii)No. of State Level Congress: 1	No funds were received form National Level for organising District Level CSC and other activities, hence the programme was not organised at District and State Level. However, the National Level Programme for the year 2023 was held in January 2025 and 26 children from Assam had participated	No funds were received
11	Maina Parijat	4 Residential Orientation Workshops for children and facilitator for three zone of SMP as well as logistic support for Drawing Competition on Environmental Issues	State level Residential Orientation Workshop to the Core Group facilitators covering 15 districts of Maina Parijat. Logistic support to 150 branches (Children Clubs) under Maina Parijat of 15 districts covering 2250 children for field survey under the guidance of their	During the financial year, logistic support was provided to the 20 District Maina Parijat centres for organizing Skill Development Workshops for facilitators and children, aimed at developing innovative science projects based on experiments and surveys. A State-Level Exhibition on "Science and Technology for Sustainable Life" was organized to showcase selected innovative projects, along with exposure visits and interaction sessions with eminent resource persons. In addition,

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
			facilitators to identify the indigenous medicinal plants at their locality Logistic support to districts for workshop on uses of indigenous medicinal plants and their preservation	leaflets were published to promote scientific awareness and dissemination of knowledge.
12	Assam Bio- resource Centre	Collection of RET plants through field visits have been completed	Collection of RET plants through field visits have been completed	Collection and conservation of RET plants: 60, orchids:63, bamboos: 26, Cactus:34 and Medicinal plants: 155
13	Science City Guwahati	The construction of the three main buildings is going on full swing and it is proposed to be completed tentatively by March 2025. The progress is Convention Centre, Gate Complex Building, Space Odyssey Building and Science Discovery Complex with a physical progress of 58%. External Development work with a physical progress of 55% Boundary Wall with a physical progress of 95%	Construction of all the three main buildings underway. Expected to be inaugurated by this Financial Year	
15	Nalbari Planetarium	Catering to the needs of the people of the region. Annual recurring grants for maintenance of the centre along with celebration of important days being undertaken	Catering to the needs of the people of the region. Annual recurring grants for maintenance	

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
			of the centre along with celebration of important days being undertaken	
16	Lakhimpur Planetarium	Catering to the needs of the people of the region. Annual recurring grants for maintenance of the centre along with celebration of important days being undertaken	Catering to the needs of the people of the region. Annual recurring grants for maintenance of the centre along with celebration of important days being undertaken	
17	Kokrajhar Planetarium	Annual recurring grants for maintenance of the centre	Annual recurring grants for maintenance of the centre	
18	New Planetariums at 6 Locations	Construction work in progress. Places: Amingaon, Diphu, Majuli, Silchar, Kaliabor and Bongaigaon	Construction work in progress. Places: Amingaon, Diphu, Majuli, Silchar, Kaliabor and Bongaigaon	Construction of five District Science Centres namely DSCP Amingaon, Majuli, Bongaigaon, Kaliabor and Silchar has been completed, and these centres have been inaugurated.
19	District Science Centres	Construction of 11 DSCs are ongoing	Construction of 11 DSCs is under halt	Construction of 11 DSCs is under halt
20	Drive Against Superstitions	Organised Awareness programme like survey and documentation of superstitious beliefs, street play, selfie point, organising debate competition, awareness programme involving parents and guardians in school level activities, etc. through 22	Awareness programme in couple of places organised. No allocation of fund	

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
		nos. of District Nodal Agencies under Environment Education Programme involving 12 nos. of Self Help Groups (total 264 nos of SHG) in each districts, involving 17 Colleges throughout Assam, 219 Aryabhatta Science Centres and 31 District Organising Committee under NCSC throughout Assam		
21	Mukhya Mantrir Bigyan Pratibha Sandhan	Selection of 110 students. Successfully conducted 5-day Mentoring Programme from 5th-9th February 2024	The 2nd stage of the mentoring programme was held at Bengaluru, in collaboration with the Karnataka State Council for Science & Technology (KSCST) from 13-17 May 2024 which includes visit to IISc, Bengaluru, Department of Aerospace / CeNSE / Centre for Brain Research, U R Rao Satellite Centre, ISRO, JNCASR etc. The mentors from the institutions have also provided online mentoring to	Selection of 40 students. Successfully conducted 5-day Mentoring Programme from 04-08 August 2025. The 2nd stage of the mentoring programme was held at Bengaluru, in collaboration with the Karnataka State Council for Science & Technology (KSCST) from 18-22 August 2025 which includes visit to IISc, Bengaluru, Department of Aerospace / CeNSE / Centre for Brain Research, U R Rao Satellite Centre, ISRO, JNCASR etc. 3 best students are chosen to visit an internationally renowned scientific institution of Cambridge and Oxford Universities like Trinity College, Wincoster College, St John's, King's etc. and also various

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
			the students based on their field of interests. 5 best students are chosen to visit an internationally renowned scientific institution of Cambridge and Oxford Universities like Trinity College, Wincoster College, St John's, King's etc. and also various laboratories of University College London and Imperial College London from 22 September to 28 September 2024.	laboratories of University College London and Imperial College London from 12 October to 18 October 2025
22	Chief Minister's Climate Resilient Village Fellowship (CMCRVF)	The fund for the Climate Change Fellowship Programme was received during FY 2022-23. Owing to the non-availability of 100 selected Fellows at a single time, the programme was implemented in batches. Under the first batch, 43 Fellows successfully completed their assignments and submitted their final reports.	In second Batch, total 38 Fellows have completed their work and submitted the reports. Fresh proposal submitted, but no Fund received.	No Fund received.

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
23	Climate Centre	NA	NA	During the Assam Budget Speech for FY 2025-26, an allocation of ₹25 crore was announced for the establishment of a Net Zero Climate Centre in Assam. Subsequently, the proposal for establishment of the Centre received the approval of the Hon'ble Chief Minister. Accordingly, a fresh proposal for implementation of the project will be submitted to the concerned Department during FY 2026-27, with a budget allocation of ₹5 crore for the financial year.
24	Up gradation of Software and Hardware License	One established laboratory is in function	One established laboratory is in function	One established laboratory is in function
25	Creation of GIS-based Resources Information System at Gaon Panchayat (GP) Level	GP's of all 25 districts are covered	All districts as well as GP's of Assam are incorporated and Web GIS portal is live for visualization	Portal is live and available in Public Domain
26	BHUBAN State Node	Updated and Completed	Live through NRSC portal	Live through NRSC portal
27	Setting up of Remote Sensing Cell (SOPD)	1. Development of Unified Portal & Specific to Line Departments, 2. Utilized for R & D of Space Technology inputs for User Specific Application Projects	1. Procurement and upgradation and maintenance of Software licenses (SAAS, LIDAR processing,	1. Hyper spectral Image Analysis software (ENVI) procured. 2. Geo-spatial activities taken up for the Line Departments and research (in areas of Drone based multispectral/LIDAR

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
			Arc GIS Enterprise Server)and Drone Operation Services and maintenance 2.Space Technology, Geo-spatial activities for the Line Departments and research (in areas of Drone based multispectral / LIDAR analysis for important agricultural crops etc.) 3. Capacity building on RS and GIS at district level (for govt. officers / academicians / researchers/other stake holders 4. Upgradation of Hardware & Software Licenses 5. Geo-portal. Dashboard and mobile app development 6. Participation in Meetings/ Seminars / Workshop etc. 7. Hiring of office Vehicle 8. Engagement of Contractual staff	analysis for important natural resources) 3. Capacity building on RS and GIS at district level (for govt. officers / academicians / researchers/other stake holders 4. Up gradation of Hardware & Software Licenses 5. Geo-portal. Dashboard and mobile app development applications and operational services 6. Participation in Meetings/ Seminars / Workshop etc. . Hiring of office Vehicle 7. Technical Support rendered to various line department for PM Gati Shakti 8. Engagement of Contractual staff 9. Miscellaneous establishment expenses (stationary, water, electricity etc.) including VC Room and Bigyan Shiskshan Kendra

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
			9. Miscellaneous establishment expenses (stationary, water, electricity etc.) including VC Room and Bigyan Shiskshan Kendra	
28	Construction of Technology Incubation Centre at GBP- Phase II	-	10%	70%
29	Operational Expenditure of Guwahati Biotech Park (GIA- Non Salary)	100 %	100 %	100 %
30	Common Infrastructure Development of Business Enterprise Zone of Guwahati Biotech Park (Balance Work- Construction of Road, RCC Drain, Culvert, Electrical Work etc.)	-	20%	75 %
31	Guwahati Biotech Park Salary	100 %	100 %	100 %
32	Science City Guwahati	The construction of the three main buildings is going on full swing and it is proposed to be completed tentatively by March 2025. The progress is Convention Centre, Gate Complex Building, Space Odyssey Building and Science Discovery Complex with a physical progress of 58%. External Development work with a physical progress of 55% Boundary Wall with a physical progress of 95%	Construction of all the three main buildings underway. Expected to be inaugurated by this Financial Year	The first phase of Science City Guwahati was inaugurated on 10.03.2026. During this phase, two buildings, namely <i>Eureka</i> and <i>Odyssey</i> , were inaugurated. Together, these buildings house seven exhibition galleries, all of which are currently open to the public.
33	Construction of Multi Activity centre at	50% of construction work completed	75% of construction	80% of construction work completed

Sl.No	Name of the Schemes/Programmes	During 2023-24	During 2024-25	During 2025-26
	Guwahati Planetarium premises		work completed	
34	Upgradation of Hybrid System of Guwahati Planetarium	Upgradation of Hybrid System of Guwahati Planetarium completed	-	-
35	Development of Metaverse extension of Virtual Reality	60% work of Metaverse completed	Completed educational metaverse work and launched	-
36	Renovation of chairs inside Guwahati Planetarium	-	-	-
37	Renovation of Photo Lab and Service room at Guwahati Planetarium	-	-	-
38	Procurement of 2 sets of Mobile Planetarium for Guwahati Planetarium	Supply order has been issued to National Council of Science Museums (NCSM), Kolkata	Completed supply of Mobile Planetarium work and launched	-
39	Procurement of 4 Nos of Telescopes for Guwahati Planetarium	-	Procured 4 Nos of telescopes for Guwahati Planetarium	-
40	Procurement of Sound system for sky theatre of Guwahati Planetarium	-	Procurement of Sound system for sky theatre of Guwahati Planetarium under process	Procurement of Sound system for sky theatre of Guwahati Planetarium completed
41	Procurement of cove light system for Sky theatre of Guwahati Planetarium	-	Procurement of cove light system for Sky theatre of Guwahati Planetarium under process	Procurement of cove light system for Sky theatre of Guwahati Planetarium under process

**ACTION TAKEN ON THE OBSERVATION & RECOMMENDATIONS OF DRSC
(C) UNDER GRANT NO 69 (SCIENCE TECHNOLOGY & CLIMATE CHANGE
DEPARTMENT FOR THE YEAR 2025-2026**

SI No.	OBSERVATIONS & RECOMMENDATIONS	ACTION TAKEN
1	The Committee recommends to enhancement of State Research and Incubation Fund by setting up a state Innovative council to facilitate research in emerging fields like AI, clean energy, biotechnology etc. and start up incubation in collaboration with IITs, NITs, advanced research Centres and prominent universities.	A discussion is required at Government level. Initially a brainstorming may be organized inviting all stakeholder to prepare a roadmap. For Biotechnology sector, BioE3 policy has been adopted by the State for implementation. The first Executive Committee meeting was held with recommendations of establishment of the State BioE3 Cell.
2	The Committee recommends to setting up a Science & Technology Park/Science city in Dhakuakhana establishing science museum, botanical garden, bio reserve centre, planetarium, innovation labs and other facilities for venturing incubation and start-ups, exhibitions, science conclaves etc.	The budgetary allocation for the Science & Technology Department was comparatively lower than that of the previous financial year. Accordingly, it was suggested that no new schemes or initiatives be undertaken during the current financial year. Priority should instead be accorded to the effective implementation and completion of the existing schemes. New schemes and initiatives may be considered in the next financial year, subject to the availability of adequate budgetary provisions.
3	The Committee recommends for strengthening existing science and engineering colleges with advanced facilities and research funding.	Science & Technology Department has schemes/projects like Research & Development, Student Research Projects, Student Science Projects, Innovation Technology Generation & Awareness (ITGA) and Green Innovation fund (GIF) through which research funding are being done. The increase in fund in above mentioned projects will help to strengthen the science & engineering colleges for research.
4	The Committee recommends to thrust on Space & Remote sensing for resource mapping, connectivity, weather forecasting, climate monitoring and early warnings.	In pursuance of the DRS Committee's recommendation regarding thrust on Space and Remote Sensing i.e. to strengthen the application of Space and Remote Sensing technologies for resource mapping, connectivity, weather forecasting, climate monitoring and early warning systems, ASSAC has significantly enhanced its geospatial infrastructure and institutional capabilities through acquisition of advanced UAVs, LiDAR, DGPS, GIS software and centralized geospatial data repositories. The Centre has implemented a number of space-

Sl No.	OBSERVATIONS & RECOMMENDATIONS	ACTION TAKEN
		based projects covering agriculture, fisheries, wetlands, forests, water resources, landslide inventory mapping and land-use monitoring thereby generating critical geospatial databases and decision-support systems for governance and developmental planning. ASSAC is acting as partner institute with NRSC, ISRO and NESAC in various natural resource mapping projects under various national missions. ASSAC has also supported PM Gati Shakti initiatives. Further, the Centre has initiated the AssamSAT Earth Observation Satellite programme, which is expected to strengthen flood forecasting, disaster management, climate monitoring, environmental surveillance of the State, thereby contributing to evidence-based planning and improved resilience against climate and disaster-related risks
5	The Committee recommends for more investment in solar farms, bio energy and waste to wealth management systems.	No funding mechanism has evolved so far as well as no mandate received from the State Government for solar farms, waste to health management systems.
6	The Committee recommends to promote Electric mobility & Smart Transportation.	The matter is not related to Science and Technology Department and it relates to Transport Department. In this regard, a letter vide No. E-67965/1783 dated 02-07-2026 has been sent to Transport Department to furnish detailed report regarding promotion of Electric Mobility & Smart Transportation, including action taken report on the matters concerned over the years and action planned for the near future. However, report from Transport Department is yet to be received.
7	The committee recommends for establishment of Assam Centre for Disaster C-resilience and climate research to conduct advanced studies on climate change.	During the Assam Budget Speech for FY 2025-26, an allocation of ₹25 crore was announced for the establishment of a Net Zero Climate Centre in Assam. Subsequently, the proposal for establishment of the Centre received the approval of the Hon'ble Chief Minister. Accordingly, a fresh proposal for implementation of the project will be submitted to the concerned Department during FY 2026-27, with a budget allocation of ₹5 crore for the

Sl No.	OBSERVATIONS & RECOMMENDATIONS	ACTION TAKEN
		financial year.
8	The Committee recommends for additional fund for rejuvenation of all existing Atal Tinkering Labs (ATLs) in Assam by replicating the Jorhat Model so that the desired outcomes of establishing the ATLs is achieved.	ATL Labs of Sivasagar and Golaghat Districts will be reactivated through Jorhat Science Centre and Planetarium. Rs. 5.00 lakh (Rupees five lakh) only has been allocated during 2025-26. However, no fund received for the FY 2025-26
9	The Committee recommends to research on local ornamental fish like 'Chanda Mass', Khalihona Maas' etc. for better commercial purpose.	A project under R&D project of ASTEC being facilitated for ornamental fish feed from Eri pupae. The synthesized fish -feed has advantages like cost-effective production, high growth performances, and improved coloration of the fish which will help in commercialization of the fish -feed products.
10	The Committee observe that the floating solar power plants have a great potentiality in the state. Therefore, the Committee strongly recommends to focus on the subject with required fund for making floating solar power plants with special reference to Sibsagar, Nagaon, Barpeta, Chaygaon areas.	Based on the outcome of Chintan Shivir organized by Ministry of New & Renewable Energy (MNRE), Government of India, AEDA had sought financial support from MNRE for mapping and collection of physical data to explore the untapped potential of floating solar opportunity and ascertain the capacity of floating solar power plant that can be taken up in the State. AEDA had earlier executed up 8 kW Floating Solar Power Plant at Amrit Sarovar in Lakhimpur district as well as 10 kW capacity floating solar power plants each at Nagaon and Barpeta districts.
11	The Committee observe that street lights are most essential in all over the districts of Assam. Therefore, the Committee strongly reiterates its earlier recommendation No.13 of Report No.68 to implement the scheme with required budget provision.	Ministry of New & Renewable Energy, Government of India is yet to announce the Solar Street Light Scheme based on the requests sent earlier.
12	The Committee recommends for strengthening research and development of Ecosystem by establishing a North East Science and Technology Innovation Hub with a focus on Bio Technology, sustainable energy, nano science, AI and material science.	A concept note is prepared for the formation of a Science, Technology and Innovation (STI) Data Portal for the state of Assam by focusing on R&D ecosystem including the areas. Bio Technology, sustainable energy, nano science, AI and material science. This can be a pathway for the establishment of a North East Science and Technology Innovation Hub.
13	The Committee recommends to create a	is submitted that the existing Biotechnology

SI No.	OBSERVATIONS & RECOMMENDATIONS	ACTION TAKEN
	dedicated fund for start-up incubation centre in collaboration with IIT, Guwahati, NITs and Central Universities and to promote Industry-academia collaboration and public- private Partnership (PPP) facilitate collaboration with global institutions for knowledge sharing, training and Joint research.	Policy for the State of Assam already includes provisions for fund and budgetary support for such initiatives. The recommendations of the Committee are broadly aligned with the objectives and provisions of the Policy. Their effective implementation, however, will be subject to the availability and allocation of adequate funds by the Government.
14	The Committee recommends to focus on north east risk bio-diversity and tribal A knowledge for drug discovery, herbal medicine and sustainable agriculture.	Climate Cell, ASTEC has been carrying out a study and documentation of traditional knowledge systems and practices in Assam with special reference to climate adaptation and resilience. An interim report of the project has been prepared and submitted to the Secretary, S&T Department, Govt. of Assam.
15	The Committee recommends to create a state Patent Cell to support IP protection for innovations routed in local knowledge. The Committee further recommends to establish a North-East knowledge repositing for documentation and digital preservation of traditional scientific practices.	PIC-ASTEC is successfully running since 2003 and facilitating IP protection for the state. Formulation of Assam IPR Policy has been completed and submitted to S&T Dept., Govt. of Assam for approval. The policy also includes repositing for documentation and digital preservation of traditional scientific practices.

**OBSERVATIONS AND RECOMMENDATIONS
(SCIENCE & TECHNOLOGY DEPARTMENT)
ON GRANT NO. 69 FOR THE FINANCIAL YEAR, 2026-27**

OBSERVATIONS AND RECOMMENDATIONS MADE ON GRANT NO. 69
FOR THE FINANCIAL YEAR 2026-27

1. The Committee recommends the Department to carry out a comparative analysis of the demographic and geographic mapping data available last 20-25 years ago with the corresponding present-day data for those areas which are prone to frequent human-elephant conflict across Assam. The Department was further advised to examine changes in vegetation cover, habitat conditions, land-use patterns, and other relevant environmental factors to identify the causes of the increasing incidence of human-elephant conflict. The Committee further recommends to study with other states to resolve man-elephant conflict in the state.
2. The Committee recommends the Department to take necessary steps to introduce an incentive-based scheme to encourage school children to take an active part in modern science and technology and to develop innovative thinking among the school children.
3. The Committee recommends the Department to engage Ph.D. scholars from universities and engineering colleges of Assam in the research-oriented projects undertaken by the Science & Technology Department by giving financial aid to Ph.D. Scholars and Engineers on that subject.
4. The Committee reiterates its earlier recommendation No. 9 of Report No. 69 of 2025-26 to produce local ornamental fish like 'Chanda Mass', 'Khalihona Maas' etc. for better commercial purpose.
5. The Committee reiterates its earlier recommendation No. 11 of Report No. 69 of 2025-26 to install street lights in both rural & urban areas for betterment of the state.
6. The Committee reiterates its earlier recommendation No. 13 of Report No. 69 of 2025-26 to create a dedicated fund for start-up incubation centre in collaboration with IIT, Guwahati, NITs and Central Universities and to promote Industry-academia collaboration and public-private Partnership (PPP) facilitate collaboration with global institutions for knowledge sharing, training and Joint research.
7. The Committee recommends to find out job-oriented subjects to be incorporated in school and college education.

THE COMMITTEE, HOWEVER, RECOMMENDS THAT THE BUDGETARY ALLOCATIONS PROVIDED UNDER GRANT NO. 69 FOR THE FINANCIAL YEAR 2026-27 BE VOTED FOR THE DEPARTMENT OF SCIENCE & TECHNOLOGY BY THE AUGUST HOUSE.

-----*-----