

## **Deptt of Science, Technology and Environment**

The vision of the Department is to provide science & technology inputs for development of socio economic scenario and quality of life of the people, especially the marginalized section of the society. The major development Programmes of the Department are Remote Sensing & GIS, Ecology & Environment, Climate change programmes, Science Communication, Promotion of Biotechnology, Setting up of Vigyan Gram, Regional Science Park etc.

### **2019-20**

#### **REMOTE SENSING & GIS**

<b>Sl. No</b>	<b>Name of the Project</b>	<b>Status</b>
<b>1</b>	Sit Suitability Analysis under Coordinated Horticultural Assessment and Management using Geo-Informatics (CHAMAN)	Identified potential site under current/abandoned Jhum cultivation areas & cultivable waste land scrub for Pine apple cultivation in Unakoti District & Orange Cultivation in North Tripura District using Geo-informatics
<b>2</b>	Geo-tagging of Water bodies.	Geo-tagged and Submitted 180 identified water bodies with all environmental and water quality parameters. The exercise was carried out jointly with Tripura State Pollution Control Board (TSPCB). (2019-20)
<b>3</b>	Identification of the aquifer location based on HGM Maps at field level for Sinking of Deep Tube Well in Tripura	As per requisition of PWD(DWS) identification & interpretation of HGM Maps was done to locate the confirm DTW Site. Hydro geological investigation was done to identify the Soil/rock strata for optimal utilization of HGM Maps
<b>4.</b>	First part NWIA (National Wetland Inventory Assessment) Phase II	The NWIA Phase II work was started in the month of September 2019. The updated database was submitted & accepted by SAC, Ahmedabad on November 2020. The 2nd part of 1:25k is going on and the work of a sample district (Sipahijala) district has been submitted recently to SAC, Ahmedabad for verification
<b>5</b>	Police Station Jurisdiction Mapping of West Tripura District	Tripura Space Application Centre started police station jurisdiction mapping on November 2020 by providing training on GPS Surveying to a group of

		TSR, who are engaged for conducting survey in ERSS project. After receiving survey points, TSAC prepared geospatial data layer of P.S. Jurisdiction Mapping in West Tripura District. The representatives from each police stations visited TSAC for verification of the concern boundary. Once completed, the final map is sent to Superintendent of Police, West Tripura for vetting. The final data layers will handed over to Home Department after receiving the vetted map.
<b>6</b>	Organised State Meet on "Promoting Space Technology based Tools & Applications in Governance & Development in Tripura"	Organised State Meet successfully on 03.12.2019 in collaboration with North East Space Application Centre (NESAC) & DoS, Govt. of India. 52 Govt. Departments participated in the meet & 93 proposals/ ideas for utilizing Space Technology in different sectors were presented.
<b>7</b>	Space based Information support for Decentralised Planning, Phase-I	Land Use/ Land Cover mapping of the State in 1:50K scale was done for Natural resource mapping.
<b>PROMOTION OF BIOTECHNOLOGY</b>		
<b>8</b>	Establishment of Bio-Village at Amtali V.C under Charilam RD Block	As per provision of the project Component distributed i. Biotech kits    ii Electrical gadgets iii.Fish fingerlings    iv Animal Resources Component v. Mushroom Spawn    vi. Bee keeping units etc 57 nos of beneficiaries comprising of 35 numbers of families have been benefitted.
<b>9</b>	Establishment of Bio-Village at Ichamuya under Ward No-10 of AMC Agartala	As per provision of the project following Component distributed as follows :- Biotech Kit, Electrical Gadgets ,    Mushroom Spawn, Bee Keeping unit etc.  96 nos of beneficiaries comprising of 50 number of families have been covered
<b>10</b>	Setting up of College Biotech club	01 number college namely Iswar Chandra Vidyasagar College, Belonia has been awarded.
<b>SCIENCE PROMOTION</b>		
<b>11</b>	Women Technology Park	To empower the rural women through various technology based livelihood opportunities, a project has been undertaken with the sponsorship of DST,

		<p>GOI under Women Technology Park scheme. Under this project 4 (four) technologies are being institutionalized as follows –</p> <ol style="list-style-type: none"> <li>i. Rapid Bio-composting Technology</li> <li>ii. Bio plate and leaf cup making technology</li> <li>iii. Mixer grain puffing-cum-roasting technology</li> <li>iv. Mechanized dhenki technology</li> </ol> <p>Following activities were undertaken :</p> <ol style="list-style-type: none"> <li>i. A Local Programme Advisory Committee has been formed for proper monitoring and smooth implementation of the project.</li> <li>ii. Location for establishment of 4 (four) Common Facilitation Centre has been identified as follows- <ol style="list-style-type: none"> <li>a. Chesrimai Panchayet, Charilam Block, Charilam, Shipahijala District</li> <li>b. Killa RD Block, Gomati District.</li> </ol> </li> <li>iii. Recruitment of Manpower initiated.</li> <li>iv. Beneficiaries have been selected.</li> <li>v. Procurement of equipments/machineries initiated.</li> </ol>
<b>12</b>	Patent Information Centre (PIC)	Total Five (5) Workshops on Intellectual Property Rights organized by Patent Information Centre at Tripura Govt. Law College, Tripura University, College of Veterinary Sciences & Animal Husbandry, M B B University etc.
<b>13</b>	Scientific Standardization of Tripura Water Filter Candle and FREE distribution of 5000 Water Filters	<p>This project has been sanctioned by DST, Govt. of India in 2019-20 and sanctioned Project Cost is Rs.98.50 Lakh only. This project is targeted for revival of indigenous technology of Tripura Water Filter Candle and Expected Outcome will be as follows –</p> <ol style="list-style-type: none"> <li>a. Distribution of 5000 number of Filters</li> <li>b. Up-gradation of Existing Filter Manufacturing Units of the State</li> <li>c. Development of Skilled Manpower</li> </ol>

		<p style="text-align: center;">Employment Generation</p> <p>Site for the project has been selected at Charilam, Sipahijala district. Manpower has already been recruited for the project</p>
<b>ECOLOGY AND ENVIRONMENT</b>		
<b>14</b>	Setting up Continuous Ambient Air Quality Monitoring Station(CAAQMS)	Undertaken the project on Setting up Continuous Ambient Air Quality Monitoring Station(CAAQMS). Analyzer unit of CAAQMS has been installed at Paribesh Bhawan, Gorkhabasti.
<b>15</b>	Compliance of Orders/ Directions of Hon'ble Supreme Court of India, NGT and High Court of Tripura	<p>Taking necessary actions for compliance of Orders/ Directions of Hon'ble Supreme Court of India, NGT and High Court of Tripura as follows :</p> <p>(i) Cases relating to Hon'ble Supreme Court of India : 04</p> <p>(ii) Cases related to Hon'ble NGT: 30</p> <p>(iii)Cases related to Hon'ble high Court of Tripura : 10</p>
<b>16</b>	River wise Action Plan	Formulated River wise Action Plan for Rejuvenation of Identified Six Polluted River Stretches of Tripura for implementation by all stakeholder Departments
<b>17</b>	Indicative Action Plan	Formulated Indicative Action Plan for Restoration of Water Bodies of Tripura (lakes, ponds and rivers).
<b>SCIENCE COMMUNICATION</b>		
<b>18</b>	Special Science Communication Campaign against Superstition:	A project on 'Special Science Communication Campaign at selected KGBV/Girl's Hostel, Ganganagar under Dhalai District in Tripura to eradicate superstition/misbelief' was undertaken. As a part of the project activity one Brainstorming

		workshop was organised on August 27, 2019 at Ganganagar Community Hall.
19	'Meet the Scientist' programme on the theme 'Evolution of Chemistry'	In collaboration with Gomati District Science Forum organized Meet the Scientist Programme for scientific awareness of the students on February 7, 2020 at 12.30 PM at Town Hall, Udaipur, Gomati District. Prof. Gautam Basu, Eminent Scientist and popular science writer from Bose Institute, Kolkata delivered a lecture on the topic ' <b>Changing Face of Chemistry: From Alchemy to Modern Multidisciplinary Science</b> '. Hon'ble Deputy Chief Minister Shri Jishnu Dev Varma was present as Chief Guest in that programme. More than 500 students attended the programme.
20	Nature Activity Camp for Children to Understand the Dynamics of Nature	This event was organized on February 11-14, 2020 at Agartala targeting School Students and Teachers of the State. This event was jointly organized with Vigyan Prasar, DST, GOI.. More than 60 school students and teachers participated in this camp.  As a follow-up this event a Hydroponics Garden is being developed at Sukanta Academy, Agartala.
21	Student Project Programme	The 3 <sup>rd</sup> Student Project Programme was organized, Agartala, Tripura with the theme ' <i>Science &amp; Technology for Sustainable Rural Development</i> '. The main competitions were organized in 2(two) separate groups viz., Group: A - for Under-graduate/Diploma Students & other categories of students of Technical Institutes and Group: B - for Post Graduate Students. In the technical sessions projects were presented followed by question answer sessions. Great enthusiasm was seen among the students during the whole programme. In total 19 Institutes of Higher & Technical Educations of Tripura participated in the said programme. Out of all the projects 9 (nine) best projects were awarded during the valedictory session of the programme
22	Awareness Generation about communicable	Puppet Show in Kokborok language on superstition & misbelief and awareness on

diseases through Puppet Show in rural areas of Gomati District in collaboration with Gomati District Science Forum:	Malaria & Diarrhoea was organized at 12 places of Gomati district in the month of March 2020.. The programme got massive response from rural people.
---	--