

## Achievements of 2018-19, 2019-20 & 2020-21 (till December, 2020)

### Space Applications

#### Year 2018-19

Sl. No	Name of the Project	Objective	Status
1	Sit Suitability Analysis under Coordinated Horticultural Assessment and Management using Geo-Informatics (CHAMAN)	Identification of potential site under current/abandoned jhum cultivation areas & cultivable waste land-scrub for horti crops cultivation in West, Unakoti & North Tripura Districts using geo-informatics.	<b>Phase-I</b> Selected Horti Crop: Banana Selected District: West Tripura Status: Completed.
2	Identification of the aquifer location based on HGM Maps at field level for Sinking of Deep Tube Well in Tripura.	Identification and interpretation of HGM Maps to locate the confirm DTW site. Hydro geological investigation to identify the soil/ rock strata for optimal utilization of HGM Map.	Ongoing (As and when requisition is received from PWD (DWS)).
3	Applications of GIS & Remote Sensing for Sericulture Development	Identification of suitable area for cultivation of Mulberry Plant.	<b>Phase II Completed</b>

**Year 2019-20**

<b>Sl. No</b>	<b>Name of the Project</b>	<b>Objective</b>	<b>Status</b>
1	Sit Suitability Analysis under Coordinated Horticultural Assessment and Management using Geo-Informatics (CHAMAN)	Identification of potential site under current/abandoned jhum cultivation areas & cultivable waste land-scrub for horti crops cultivation in West, Unakoti & North Tripura Districts using geo-informatics.	<b>Phase-II</b> Selected Horti Crop: Pineapple for Unakoti District Orange for North Tripura District <b>Status:</b> Completed.
2	Geo-tagging of Water bodies.	Geo tagging of all Govt. water bodies within urban local bodies.	<b>Status:</b> Geo-tagged and Submitted 180 identified water bodies with all environmental and water quality parameters. The exercise was carried out jointly with TSPCB. (2019-20)
3	Identification of the aquifer location based on HGM Maps at field level for Sinking of Deep Tube Well in Tripura.	Identification and interpretation of HGM Maps to locate the confirm DTW site. Hydro geological investigation to identify the soil/ rock strata for optimal utilization of HGM Map.	Ongoing (As and when requisition is received from PWD (DWS)).
4	First part NWIA (National Wetland Inventory Assessment) Phase II	Updation of Wetland Inventory of Tripura at 1:50,000 scale using Resourcesat LISSIII data of timeframe 2017-18, using the existing Wetland Inventory of timeframe 2006-07 as base layer. Creation of Wetland Inventory GIS Database for year 2017- 18. Change analysis between Wetland Inventory of timeframe 2017-18 and 2006-07 and report preparation. Preparation of Wetland Inventory of Tripura at 1:25,000 scale using Resourcesat LISS-IV data of timeframe 2017-18. Creation of Wetland Inventory GIS Database for year 2017-18. Preparation of state level project report and Atlas. Hydro-ecological pilot level study for Rudrasagar Lake (Ramsar site).	The NWIA Phase – II work was started in the month of September, 2019. The updated database was submitted and accepted by SAC.
5	Police Station Jurisdiction Mapping of West Tripura District	TSAC 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	Completed

		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.	
6	Organised State Meet on "Promoting Space Technology based Tools & Applications in Governance & Development in Tripura"	Organised successfully on 03.12.2019 in collaboration with NESAC & DoS, Govt. of India. 52 Govt. Departments participated in the meet & 93 proposals/ ideas for utilizing Space Technology in different sectors were presented.	Completed
7	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.	Completed

**Year 2020-21 (till December, 2020)**

<b>Sl. No</b>	<b>Name of the Project</b>	<b>Objective</b>	<b>Status</b>
1	Identification of the aquifer location based on HGM Maps at field level for Sinking of Deep Tube Well in Tripura.	Identification and interpretation of HGM Maps to locate the confirm DTW site. Hydro geological investigation to identify the soil/ rock strata for optimal utilization of HGM Map.	Ongoing (As and when requisition is received from PWD (DWS)).
2	Geo-Tagging of NEC Assets	Geo-Tagging of existing project sites in NE region by TSAC using smart phone and GAGAN dongles. The tentative number of project sites required to geo-tag is 63 for the state of Tripura. Geo-Tagging of new project sites shall also be part of the work during project duration. To carry out unmanned aerial vehicle (UAV) survey in certain project sites on case to case basis as per the directive of NEC with separate financial support. To provide support and coordination during training and outreach phases on various versions of Mobile and Dashboard Applications developed by NESAC.	Ongoing, Project Location: 27 completed out of 63 locations.
3	Police Station Jurisdiction Mapping of North Tripura District	In connection with Police Station Jurisdiction Mapping of West Tripura District completed recently, TSAC involve for preparation of P.S. Jurisdiction Mapping of North Tripura District. TSAC completed mapping of geospatial data layer of P.S. Jurisdiction Mapping in North Tripura District and start communication with Home Department for verification as well as vetting of the same. The final data layers will hand over to Home Department after receiving the vetted copy of the map.	Ongoing
4	Preparation of Geo-Spatial Data Layers for SPMRM project.	For spatial planning of SPMRM project, R.D. Deptt., Govt. of Tripura requested to prepare geo-spatial data layers of Kathalia cluster.	Ongoing

		<p>TSAC prepares 61 (Sixty one) spatial layers for the Kathalia cluster and KML copy of same is sent to RD Deptt. A presentation is preparing by the RD Deptt. using those spatial data layers.</p> <p>Once Kathalia cluster is complete, TSAC will start same task on Hrishyamukh cluster.</p>	
5	Monitoring of Integrated Watershed Programme (IWMP) using Geospatial technologies.	The project envisages monitoring and evaluation of IWMP projects for the state of Tripura for the sanctioned projects from 2009-10 to 2014-15. Each project has to be monitored for a period of 5 years using high resolution satellite data-LISS-IV and Cartosat.	Preparation of Batch wise LULC report is in progress.
6	GIS based Online Industrial Land Bank Management System.	Creation of Geo-Spatial data layers of all Industrial clusters of the State i/c facility mapping and development of Web-GIS application for online Land Bank Management system of TIDC.	Geo-data layers created. Web-GIS application development is in final stage.
7	2 <sup>nd</sup> Part NWIA-II	Preparation of Wetland Invention in 1:25K scale.	Work for one model District (Sepahijala) completed & submitted to the SAC for validation.