River Information System

River Information Services (RIS) are combination of modern tracking equipment, related hardware and software designed to optimize traffic and transport processes in inland navigation. The system enhances swift electronic data transfer between mobile vessels and shore (Base stations) through advance and real-time exchange of information. RIS is being mainly used in advanced waterways of Europe, China & the U.S.A. The operationalisation of this system in India brings India at par with these waterways.

1. The “River Information Service (RIS)” system is a form of Vessel Traffic Management using next generation technology.

- River Information Services (RIS) are combination of sensors like Automatic Identification System (AIS), Radar, Meteorological and Hydrological equipment and software information technology (IT) related services designed to optimize traffic and transport processes in inland navigation.
- The system enhances swift electronic data transfer between mobile vessels and shore stations through advance and real-time exchange of information.
- RIS aims to streamline the exchange of information between various stakeholders of Inland Water Transport. The system will facilitate exchange of real time information like, wind speed, fog conditions, danger areas, depth information, rout details between operators and vessel masters.
- This would facilitate enhancement of inland navigation safety in ports and rivers and optimize the resource management of the waterborne transport chain which will enhance the efficiency of inland navigation.

- This will also help in providing traffic and transport information to the operators for an efficient calamity & optimal navigation on Ganga.

2. This will immensely help in optimization of navigation and minimize collision risks in the waterway thus benefitting the users greatly.

3. RIS facilitates :-

   - Enhancement of inland navigation safety in ports and rivers.
   - Better use of the inland waterways
   - Environmental protection

4. RIS enables safe and efficient inland water transport by minimizing the following risks:-

   - Ship- to - Ship collisions
   - Ship - Bridge collisions
   - Groundings
The Union Minister for Road Transport & Highways and Shipping, Shri Nitin Gadkari inaugurating the River Information Services (RIS) System, in New Delhi on January 06, 2016. The Secretary, Ministry of Shipping, Shri Rajive Kumar and the Chairman, IWA, Shri Amitabh Verma is also seen.
5. IWAI is implementing the project in three phases in National Waterway 1 the Ganga-Bhagirathi-Hooghly river system between Allahabad and Haldia covering a distance of 1620 KM. The details are as follows:

<table>
<thead>
<tr>
<th>Project</th>
<th>Stretch</th>
<th>River Stretch</th>
<th>Project cost</th>
<th>Infrastructures</th>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIS Phase -1</td>
<td>Haldia to Farakka</td>
<td>545 Km</td>
<td>Rs.26.3 Cr</td>
<td>7 base stations 2 Control stations 30 Vessels station</td>
<td>Completed</td>
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<tr>
<td>RIS Phase -2</td>
<td>Farakka to Patna</td>
<td>410Km</td>
<td>Rs.15.89 Cr</td>
<td>6 Base stations 1 Control station</td>
<td>Under Implementation</td>
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<tr>
<td>RIS Phase -3</td>
<td>Patna to Varanasi</td>
<td>356 Km</td>
<td>Rs.14.56 Cr</td>
<td>4 Base stations 1 Control station</td>
<td>Tendering in progress</td>
</tr>
</tbody>
</table>
Schematic view of River information system

A Typical RIS setup
Equipment in RIS Control station

Equipment in Mobile station
RIS Software features: User Defined Rules
Metrological sensors at Base station

Weather Data at RIS Base station

Equipment RIS at Base station
Press release

‘River info system to keep track on waterway traffic’

Gadkari inaugurates 1st ever NIS on Haldia-Faraka stretch

The Centre on Wednesday launched a river information system (NIS), similar to an airport control tower, to keep a constant watch on the waterway traffic on the Haldia-Faraka stretch in West Bengal. The system, which is in the initial stage of trials, allows for better and safer navigation on the waterways.

The system is expected to help in the safe and efficient movement of vessels, reducing the risk of collisions and other accidents. It will also help in the conservation of the environment by reducing pollution caused by vessels.

“The NIS will be a game-changer for the waterways, ensuring safer navigation and reducing the risk of accidents,” said Gadkari. “It is a step towards making the waterways more efficient and environmentally friendly.”

The system will be able to monitor the position of vessels in real-time, allowing for better traffic management and reducing the risk of congestion.

With the launch of the NIS, the government is taking a significant step towards modernizing the waterways and making them more efficient. The system is expected to be operational within the next few weeks.

Source: The Pioneer
नदियों में न भटकेंगे जहाज और न होगा टकराव

अकलन

अंतरराष्ट्रीय रेफरेंस रोज वर्ल्ड व्यापार अंक 38

10
गडकरी ने भारत की पहली नदी सूचना प्रणाली का उद्धारन किया

मेंत्री कार्यालय

गदकरी ने भारत की पहली नदी सूचना प्रणाली का उद्धारन किया है। यह प्रणाली इस तरह की पहली नदी सूचना प्रणाली के रूप में कार्य करती है। यह प्रणाली सरकार के उद्देश्यों को पूरा करने के लिए विभिन्न संस्थाओं के साथ साझेदारी करती है।

गदकरी ने कहा कि इस प्रणाली के अंतर्गत सभी संस्थाओं के लिए एक सामन्त मार्ग सराहना की है। इस प्रणाली के माध्यम से सभी संस्थाओं के मामलों को सुनिश्चित करने का प्रयास किया जा रहा है।

यदि आप कोई जलवायु परिवर्तन से संबंधित सवाल रखते हैं तो आप गदकरी से संपर्क कर सकते हैं।

प्रत्यय संस्थानों के साथ कार्य करने के लिए गदकरी ने अपनी सरकारी समिति को दी जाती है। इस समिति के माध्यम से सभी संस्थाओं को सही तरीके से सहयोग दिया जाता है।