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GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

LOK SABHA
UNSTARRED QUESTION NO.1421
TO BE ANSWERED ON 27.11.2019

ISRO ENABLED GPS SYSTEM

1421. PROF. SAUGATA RAY:

Will the Minister of RAILWAYS be pleased to state:

(a) whether the Indian Railways has started setting up of ISRO Enabled GPS System Real Train Information System (RTIS) in passenger trains of the country;

(b) if so, the details thereof and the number of trains that have already got the system installed, zone wise;

(c) the advantages of such system in the overall functioning of the Indian Railways;

(d) whether there is any proposal to install the same in goods trains also; and

(e) if so, the details thereof?

ANSWER

MINISTER OF RAILWAYS AND COMMERCE & INDUSTRY

(SHRI PIYUSH GOYAL)

(a) to (e): A Statement is laid on the Table of the House.

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STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF
UNSTARRED QUESTION NO.1421 BY PROF. SAUGATA RAY TO BE
ANSWERED IN LOK SABHA ON 27.11.2019 REGARDING ISRO
ENABLED GPS SYSTEM

(a) to (e) : Yes, Sir. Real-time Train Information System (RTIS)
project is being executed by Centre for Railway Information
System (CRIS), which is an Information Technology arm of the
Ministry of Railways, in collaboration with Indian Space Research
Organisation (ISRO). It is primarily used for acquisition of train
movement data, including that of arrival, departure, run-through
timings at the stations in route. As the RTIS devices have been
installed in locomotives, the trains hauled by such locomotives get
tracked through this system. The zone-wise details of installation
of RTIS device in the passenger and goods train locomotives till
20.11.2019, are as under:

<table>
<thead>
<tr>
<th>Zone</th>
<th>Number of Passenger Locomotives</th>
<th>Number of Goods Locomotives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Railway</td>
<td>103</td>
<td>217</td>
</tr>
<tr>
<td>East Coast Railway</td>
<td>53</td>
<td>140</td>
</tr>
<tr>
<td>East Central Railway</td>
<td>89</td>
<td>76</td>
</tr>
<tr>
<td>Eastern Railway</td>
<td>130</td>
<td>28</td>
</tr>
<tr>
<td>North Central Railway</td>
<td>44</td>
<td>71</td>
</tr>
<tr>
<td>Northern Railway</td>
<td>268</td>
<td>61</td>
</tr>
<tr>
<td>South Central Railway</td>
<td>146</td>
<td>127</td>
</tr>
<tr>
<td>South East Central Railway</td>
<td>50</td>
<td>14</td>
</tr>
<tr>
<td>South Eastern Railway</td>
<td>121</td>
<td>157</td>
</tr>
<tr>
<td>Southern Railway</td>
<td>232</td>
<td>48</td>
</tr>
<tr>
<td>West Central Railway</td>
<td>181</td>
<td>116</td>
</tr>
<tr>
<td>Western Railway</td>
<td>177</td>
<td>00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1594</strong></td>
<td><strong>1055</strong></td>
</tr>
</tbody>
</table>
Additional funds for installation of RTIS system in 6000 more locomotives (both passenger and goods) have been sanctioned in 2019.

The automatic acquisition of the train running data by the RTIS system helps in improving the efficiency of train control, dissemination of accurate train running information to the passengers and freight customers, and emergency messaging between locomotive and control centre.

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