

## 1. Equine herpesvirus-1 (EHV-1) vaccine

<b>Title of technology</b>	<b>Equiherpabort vaccine</b>
<p><b>Preamble</b></p> <p>This inactivated vaccine has been developed for control of herpesvirus-1 infection in horses. This vaccine was developed using field strain of equine herpes virus-1. Infection due to this virus in horses causes abortion, stillbirths and foal mortality, respiratory and neurological disease. EHV-1 is responsible for heavy economic losses to the equine industry. The disease mostly spreads through aerosols, contaminated food, water, bedding and other fomites. Healthy horses acquire infections mostly through respiratory tract. In a national assessment of EHV-1 infection amongst equidae in India, 13.5% serum samples were found seropositive. Killed vaccine is recommended for immunoprophylaxis in countries where there is a general ban on live vaccine. The vaccination of horses against EHV-1 infection has been practiced by Indian equine breeders for some years with a killed vaccine produced commercially by incorporating EHV-1 killed virus. This vaccine will serve as an alternative for control of the disease.</p>	
<p><b>Salient features</b></p> <ul style="list-style-type: none"> <li>• Equiherpabort vaccine is a formaline inactivated vaccine prepared from an indigenous EHV-1 (strain hisar-90-7), grown in VERO Cell culture.</li> <li>• This is an oil emulsion mannide monooleate (OEMM) EHV-1 vaccine</li> <li>• This vaccine is intended for all equine species especially for pregnant mares</li> <li>• Protective immunization response of this vaccine was recorded in experimental field trials conducted in pregnant mares</li> <li>• This vaccine showed comparable results with respect to commercial vaccine.</li> <li>• Dosage schedule: 2 ml intramuscular at 5 months of pregnancy followed by two boosters at 7<sup>th</sup> and 9<sup>th</sup> month of pregnancy.</li> <li>• This vaccine provides very good protective immunity against abortions due to EHV1.</li> </ul>	
<p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• Drug and vaccines manufacturers</li> <li>• State Govt Veterinary Biologicals Production Units</li> <li>• Small Entrepreneurs</li> <li>• Equine farmers</li> <li>• Indigenous Horse Societies/ Army/ Police Departments etc.</li> </ul>	
<p><b>Economic benefits</b></p> <ul style="list-style-type: none"> <li>• This vaccine will help in decrease in occurrence of abortions, paralysis, perinatal foal mortality and respiratory disease due to EHV-1.</li> <li>• Increase in equine production and work efficiency.</li> <li>• Improvement in economy of the equine owners.</li> </ul>	

