



VRL/SEC/BSE/91

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Dept. of Corporate Services
The Stock Exchange, Mumbai
25th Floor, Phiroze Jeejeebhoy Towers
Dalal Street
Mumbai

Sub. : Venus drug to fight resistant 'superbugs' wins US Patent

Dear Sir/Madam,

This is to inform you that Venus Remedies Limited has received patent from the US Patent Office for a breakthrough antibiotic product.

The new drug product CSE1034 which is an antibiotic adjuvant entity (AAE), has been found to be effective against a wide range of drug resistant infections including the 'superbugs' like carbapenemase resistant Metallobetalactamses (MBL) strains.

The US patent of CSE 1034 for Venus Remedies Limited is a landmark development for initiating the process of commercialization of this novel drug, designed specifically to target growing bacterial resistance mechanisms.

The innovation achieves greater significance at a time medical community worldwide, particularly India, is looking for ways to deal with the growing problem of antibiotic resistance. Drug-resistant microbes could well become a threat to human race in the days to come as an increasing number of antibiotics are feared losing out in the battle. Emergence of 'superbugs' like carbapenemase resistant Metallobetalactamses has further complicated the scenario.

Also, there are far fewer new antibiotics in the development pipeline as global drug makers are focusing more on drug candidates with instant block-buster potential to treat cancer and metabolic diseases.

In view of the urgency, the regulatory agencies around the world are currently fast-tracking the approval process of antibiotic drugs. Even the Infectious Diseases Society of America (IDSA) has recommended the U.S. Food and Drug Administration (FDA) to review drugs designed to target antibiotic resistance as "orphan drugs" to speed up their marketing approval.

Venus' drug has a unique profile of action which gives it an edge over all the existing therapies. This unique antibiotics adjuvant entity creates a synergistic effect due to its activity on AMRINGER (Acquired Multiple Resistance in Gram Negative Enterococci and Rods) which stops development and spread of bacterial resistance. Experience with clinical studies on >1000 patients have indicated approximately 20-30% reduction in cost of therapy compared to conventional therapies being used.

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Studies conducted in hospitals across India have shown that the novel antibiotic adjuvant entity is suitable for the treatment of a range of infections affecting lower respiratory tract, urinary tract, skin & skin structure, bone & joint and conditions like meningitis, septicaemia, acute otitis media.

The drug has been found safe while effectively dealing with hospital acquired (nosocomial) infections involving metallo-beta-lactamase and other resistant strains such as E. coli, K. pneumoniae, P. aeruginosa & A. baumannii, with reduced drug induced toxicity resulting in lesser adverse effects.

Infections caused by resistant microorganisms often fail to respond to conventional treatment, resulting in prolonged illness and greater risk of death. In India, 10-30% of patients admitted to hospitals and nursing homes contract nosocomial infections.

Venus Remedies is planning to launch this drug in India under the brand name ELORES and is planning to have a pre IND meeting with US FDA for fast track approval of this product.

Anti-infective pharmaceuticals segment in India is the largest contributor to domestic pharmaceutical sales, contributing around 17% of the USD 11 bn (2011 PwC) market. The antibiotics segment, which is growing at a pace of over 20% per annum, are estimated to have a share of around 12% in the overall antibiotics market in India.

Globally, the antibiotics market generated sales of US\$42 billion in 2009, representing 46% of sales of anti-infective agents (which also include antiviral drugs and vaccines) and 5% of the global pharmaceutical market. However, the antibiotics market is maturing; it showed an average annual growth of 4% over the past 5 years, out of this US alone contributes 35% of market share which is US\$12 billion.

Anti-microbial resistance is increasing day by day and patient coming from different hospital settings have multi-drug resistance pathogen. Pathogen resistance is increasing against the highest order of antibiotics. It is about whole world but an Indian Company getting patent in US for an innovation is a proud moment. Indian company taking a lead against Antimicrobial resistance is good for India as the medical fraternity and patients here can get cheaper novel drugs.

Thanking You.

Yours faithfully,
for VENUS REMEDIES LIMITED.


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