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July 11, 2020

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| To The Manager BSE Limited Department of Corporate Services Phiroze Jeejeebhoy Towers, Dalal Street, Mumbai – 400 001 Scrip Code - 532523 | To The Manager, National Stock Exchange of India Limited Corporate Communication Department Exchange Plaza, Bandra Kurla Complex Mumbai – 400 050 Scrip Symbol - Biocon |
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Subject: Press Release titled “Biocon’s Breakthrough Drug Itolizumab Receives DCGI Nod for its Use in Moderate to Severe COVID-19 Patients”.

Dear Sir/Madam,

Pursuant to Regulation 30 of the SEBI (Listing Obligation and Disclosure Requirements) Regulations, 2015, please find enclosed the press release titled “**Biocon’s Breakthrough Drug Itolizumab Receives DCGI Nod for its Use in Moderate to Severe COVID-19 Patients**”.

The above information will also be available on the website of the Company at www.biocon.com.

Kindly take the same on record and acknowledge.

Thanking You,

Yours faithfully,

For **Biocon Limited**



Mayank Verma
Company Secretary and Compliance Officer



Press Release

Biocon's Breakthrough Drug Itolizumab Receives DCGI Nod for its Use in Moderate to Severe COVID-19 Patients

Drug to Save Many Lives

Bengaluru, Karnataka, India – July 11, 2020

Biocon Ltd. (BSE code: 532523, NSE: BIOCON), an innovation-led global biopharmaceuticals company, announced today that it has received the Drugs Controller General of India's (DCGI) approval to market **Itolizumab** (ALZUMAb™) Injection 25mg/5mL solution for emergency use in India for the treatment of cytokine release syndrome (CRS) in moderate to severe ARDS (acute respiratory distress syndrome) patients due to COVID-19.

Itolizumab is the first novel biologic therapy to be approved anywhere in the world for treating patients with moderate to severe COVID-19 complications. Biocon has repurposed Itolizumab, an anti-CD6 IgG1 monoclonal antibody launched in India in 2013 as ALZUMAb™ for treating chronic plaque psoriasis, for the treatment of CRS in moderate to severe ARDS patients due to COVID-19.

Itolizumab will be manufactured and formulated as an intravenous injection at Biocon's bio-manufacturing facility at Biocon Park, Bengaluru.

The **SARS-CoV-2 virus** has been observed to induce an overreaction of the immune system, generating a large number of cytokines that can cause severe damage to the lungs and other organs, and, in the worst scenario, multi-organ failure and even death.

The approval of **Itolizumab**, from the DCGI is based on the results from the successful conclusion of a randomized, controlled clinical trial at multiple hospitals in Mumbai and New Delhi. The study focussed on the **safety** and **efficacy** of Itolizumab in preventing CRS in moderate to severe ARDS patients due to COVID-19. The primary endpoints for reduction in mortality rate were met and other key secondary endpoints for efficacy and biomarkers were also achieved.

Kiran Mazumdar-Shaw, Executive Chairperson, Biocon, said: *"As an innovation-led biopharmaceuticals company, I am proud of the successful outcome of the pivotal study we conducted with our novel immuno-modulating anti-CD6 monoclonal antibody, Itolizumab, which has proven to be an efficacious intervention in treating the serious hyper immune response seen with COVID-19. The data is compelling and I am*



confident that this 'first-in-class' biologic will save lives and help reduce the mortality rate in our country.

"This positions India amongst the leading global innovators in their effort to overcome the COVID-19 pandemic. The randomized control trial indicated that all the patients treated with Itolizumab (ALZUMAb™) responded positively and recovered. The control arm that did not receive Itolizumab unfortunately had deaths. Itolizumab is now approved for the treatment of CRS in patients with moderate to severe ARDS due to COVID-19. We plan to take this therapy to other parts of the world impacted by the pandemic.

"Itolizumab's unique mechanism of action made it an ideal candidate for treating the 'cytokine storm', which is a leading cause of death in COVID-19 patients. I am pleased that our R&D and clinical teams delivered on this promising hypothesis in such a short period of time. It is a proud moment for all of us at Biocon and we would like more and more patients to benefit from this therapy. I also thank the investigators and the regulators for the sense of urgency that they displayed in this study.

"ALZUMAb™ has a seven-year proven track record of safety as doctors in India have been prescribing this biologic to treat acute psoriasis and ensure a better quality of life for patients and now we will be able to save many critically ill COVID 19 patients with our drug."

Dr Suresh Kumar, Medical Director, Lok Nayak Hospital, Delhi said: *"At the time of this COVID-19 pandemic, we do not have any specific treatment for patients who are losing the fight against the disease in spite of best supportive care. Lok Nayak Hospital was one of the sites of the Itolizumab study wherein we used Itolizumab to treat eight patients. These patients did extremely well even with a single dose of Itolizumab. Patients who were with initial oxygen saturation of less than 80% and would have been put on ventilator support with little chance of survival, recovered completely when treated with Itolizumab and got discharged. I sincerely believe Itolizumab will not only help in reducing morbidity and mortality of COVID-19 patients but will also help us in judiciously managing healthcare resources like ICUs and ventilators for critically ill patients."*

Dr Mohan Joshi, Dean, BYL Nair Hospital, Mumbai, said: *"In our hospital, we have tried Itolizumab in many COVID-19 patients with moderate to severe ARDS and found significant improvement in clinical, radiological and inflammatory markers after administering Itolizumab. These outcomes were quite evident with one dose of Itolizumab when administered before the 'cytokine storm' set in. Most of the patients have well tolerated the drug. Given the growing surge of COVID-19 cases, I would recommend use of Itolizumab in moderate to severe complications in COVID-19."*



Dr Sandeep Athalye, Chief Medical Officer, Biocon Biologics, said: *“We are delighted with the results of the clinical trial for Itolizumab in India. Itolizumab demonstrated statistically significant advantage over the control arm, in one month mortality rate. Key efficacy parameters such as IL-6, TNF- α , PaO₂ and SpO₂ (oxygen saturation) improvement without increasing FiO₂ (oxygen flow) also showed statistically significant advantage for Itolizumab arm over the control arm. All the patients on Itolizumab arm were weaned off oxygen by Day 30, and none needed ventilator support unlike the control arm. Key secondary endpoints of clinical markers of inflammation such as serum ferritin, d-dimer, LDH and CRP showed clinically significant suppression post dose and correlated well with clinical improvement in symptoms and chest x-ray images. Itolizumab was overall well tolerated and was found to be safe. Itolizumab when administered to patients with moderate to severe ARDS due to COVID19, prevents morbidity and mortality due to cytokine storm.*

India currently has more than 283,400* documented active coronavirus infections and over 22,100* deaths.

Itolizumab’s unique mechanism of action of immunomodulation involves binding to the CD6 receptor and blocking the activation of T lymphocytes, which in turn suppresses the pro-inflammatory cytokines, thus reducing the cytokine storm and deadly inflammatory response.

Biocon launched **ALZUMAb™** (Itolizumab) in India in 2013 for the treatment of chronic plaque psoriasis. Many patients have benefitted from this novel therapy.

**Source: Ministry of Health & Family Welfare, Govt of India (Update as of 11 July 2020, 08:00 IST)*

About Biocon Limited

Biocon Limited, publicly listed in 2004, (BSE code: 532523, NSE Id: BIOCON, ISIN Id: INE376G01013) is an innovation-led global biopharmaceuticals company committed to enhance affordable access to complex therapies for chronic conditions like diabetes, cancer and autoimmune. It has developed and commercialized novel biologics, biosimilars, and complex small molecule APIs in India and several key global markets as well as generic formulations in the US and Europe. It also has a pipeline of promising novel assets in immunotherapy under development. www.biocon.com
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Biocon Biologics is a subsidiary of Biocon Ltd. It is uniquely positioned as a fully integrated ‘pure play’ biosimilars organization in the world and aspires to transform patient lives through innovative and inclusive healthcare solutions. The Company’s portfolio of biosimilar molecules comprises a rich pipeline of approved and in-development biosimilars, which are an outcome of its high end R&D and global scale manufacturing expertise. The Company has commercialized three of its biosimilars in



the developed markets like EU, U.S., Japan and Australia. It is a leading global insulins player with over 15 years of experience in addressing the needs of patients with diabetes, having provided over 2 billion doses of human insulin worldwide, thus far. Follow-us on Twitter: @BioconBiologics

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