

File No: BIO/CT/25/000010  
Government of India  
Directorate General of Health Services  
Central Drugs Standard Control Organization  
(Biological Division)

FDA Bhawan Kotla Road,  
New Delhi-110002  
Dated:

**From:**

The Drugs Controller General, India  
Directorate General of Health Services,

**To**

M/s Zydus Lifesciences Limited,  
Plot Survey No. 23, 25/P, 37, 40/P, 42 to 47, 49 & 50,  
Sarkhej-Bavla N. H. No. 8A, Opp. Ramdev Masala,  
Village - Changodar, Taluka - Sanand,  
Dist. -Ahmedabad, Gujarat (India) - 382213.

**Subject:** Permission for conducting a clinical trial titled "A prospective, randomized, parallel, single-blind, two-arm, active controlled, multicentre, age de-escalation, phase II clinical trial to evaluate the immunogenicity and safety of Bivalent Typhoid and Paratyphoid A Conjugate Vaccine of M/s. Zydus Lifesciences Ltd. as compared to Typhoid Vi Conjugate Vaccine of M/s. Zydus Lifesciences Ltd. in healthy participants." [Protocol No: BTPT.24.001; Version No: 01; Dated 21.01.2025] - regarding.

**Reference:** Your Application No. BIO/CT04/FF/2025/47464 dated 22-01-2025 on the subject mentioned above.

**Sir,**

Please refer to your application no. No. BIO/CT04/FF/2025/47464 dated 22-01-2025, received by this office on the above subject. Please find enclosed herewith permission to conduct a Phase II Clinical Trial of "Bivalent Typhoid and Paratyphoid A Conjugate Vaccine" in Form CT-06 under the New Drugs and Clinical Trials Rules, 2019 along with the details of new drug and clinical trial sites.

Please acknowledge receipt of the same.

**Yours faithfully,**

**(Dr. Rajeev Singh Raghuvanshi)  
Drugs Controller General (India)**

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**FORM CT-06**

(See rules 22, 25, 26, 29 and 30)

**PERMISSION TO CONDUCT CLINICAL TRIAL OF NEW DRUG OR INVESTIGATIONAL NEW DRUG**

The Central Licencing Authority hereby permits M/s Zydus Lifesciences Limited, Plot Survey No. 23, 25/P, 37, 40/P, 42 to 47, 49 & 50, Sarkhej-Bavla N. H. No. 8A, Opp. Ramdev Masala, Village - Changodar, Taluka - Sanand, Dist. - Ahmedabad, Gujarat (India) - 382213. Telephone No.: 91-2717-664605, FAX: 91-2717-664600, E-Mail: sanjaymaheshwari@zyduslife.com to conduct clinical trial of the new drug or investigational new drug as per Protocol No: BTPT.24.001; Version No: 01; Dated 21.01.2025 in the below mentioned clinical trial sites.

**CT No.: CT- 17/2025**

2. Details of new drug or investigational new drug and clinical trial site [As per Annexure].
3. This permission is subject to the conditions prescribed in part A of Chapter V of the New Drugs and Clinical Trials Rules, 2019 under the Drugs and Cosmetics Act, 1940.

Place: New Delhi  
Date:

(Dr. Rajeev Singh Raghuvanshi)  
Drugs Controller General (India)  
Central Licencing Authority

### Annexure: Details of New Drug or Investigational New Drug:

Name of the new drug or investigational new drug:	Bivalent Typhoid and Paratyphoid A Conjugate Vaccine		
Therapeutic class:	Vaccine		
Dosage form:	Vaccines (Liquid), Intramuscular Injection 0.5 mL		
Composition:	Composition:		
	Each dose of 0.5 ml contains:		
	<b>Ingredients</b>	<b>Quantity/ dose</b>	
	Purified Vi capsular polysaccharide of <i>S.typhi</i> conjugated to 16-50 µg of Tetanus toxoid (Carrier protein)	25 µg	
	Purified OS polysaccharide of <i>S.Paratyphoid A</i> conjugated to 16-50 µg of Diphtheria Toxoid (Carrier protein)	25 µg	
2-Phenoxyethanol	2.5 mg		
Normal Saline	q.s. to 0.5mL		
Presentation:	USP Type 1 glass vial (single dose)		
Indication(s):	For active immunization for prevention of Typhoid Fever and Paratyphoid A Fever.		

### Details of clinical trial sites-

S. No.	Name and Address of Clinical Trial Site	Ethics Committee details	Name of Principal Investigator
1	Belagavi Institute of Medical Sciences, Dr B.R. Ambedkar Road, Sadashiv Nagar, Belagavi -590001, Karnataka	Institutional Ethics Committee, Belagavi Institute of Medical Sciences, Dr B.R. Ambedkar Road, Sadashiv Nagar, Belagavi - 590001, Karnataka ECR/801/Inst/KA/2016/RR-20	Dr. Jyothi S. Doshetty
2	Dhiraj Hospital, SBKS MI & RC, At& Post: Piparia, Taluka: Waghodia, Vadodara-391760, Gujarat,	Sumandeep Vidyapeeth, Institutional Ethics Committee, At & Post: Piparia, Taluka: Waghodia, Vadodara-391760, Gujarat. ECR/152/Inst/GJ/2013/RR-24	Dr. Javdekar Bakul Balchandra
3	Aatman Hospital,5, Anveshan Row House, Opp. Umiya Mata Mandir, Bopal-Ghuma Main Road, Bopal, Ahmedabad-380058, Gujarat	Institutional Ethics Committee, Aatman Hospital, 5, Anveshan Row house, opp. Umiya mata mandir, Bopal-Ghuma Main Road, Bopal, Ahmedabad-380058, Gujarat ECR/1565/Inst/GJ/2021	Dr. Shreyans Shah

4	Niloufer Hospital (Affiliated to Osmania Medical College), Red Hills, Lakdikapul, Hyderabad-500004, Telangana.	Institutional Ethics Committee, Osmania Medical College, Koti, Hyderabad-500059, Telangana ECR/300/Inst/AP/2013/RR-24	Dr. N RaviKumar
5	Hi-Tech Medical College & Hospital, Health Park, Pandara, Rasulgarh, Bhubaneswar -751025, Odisha.	Institutional Ethics Committee, Hi-Tech Medical College & Hospital, Health Park, Pandara, Rasulgarh, Bhubaneswar-751025, Odisha ECR/273/Inst/OR/2013/RR-20	Dr. Lisa Sarangi
6	Vani Vilas Hospital, Bangalore Medical College and Research Institute, K R Road Fort, Bangalore 560002, Karnataka.	Ethics Committee of BMCRI, Bangalore Medical College and Research Institute, Fort K R Road Bengaluru, Urban Karnataka – 560002. ECR/302/Inst/KA/2013/RR-20	Dr. Shivaprakash S C
7	King George's Medical University. Shahmeena Road, Chowk, Lucknow-226003, Uttar Pradesh	Institutional Ethics Committee, Office of Research Cell, Administrative Block, King George's Medical University, Lucknow-226003, Uttar Pradesh ECR/262/Inst/UP/2013/RR-19	Dr. Ambuj Yadav
8	Institute of Medical Science and SUM Hospital, K8, Kalinga Nagar, Ghatikia, Bhubaneswar-751003, Odisha	Institutional Ethics Committee, Institute of Medical Sciences & SUM Hospital, K8, Kalina Nagar, Ghatikia, Bhubaneswar-751003, Odisha ECR/627/Inst/OR/2014/RR-20	Dr Chandan Das

In addition to point 3, the permission is subject to following conditions:

1. The proposed clinical trial should be conducted as per protocol titled "A prospective, randomized, parallel, single-blind, two-arm, active- controlled, multicentre, age de-escalation, phase II clinical trial to evaluate the immunogenicity and safety of Bivalent Typhoid and Paratyphoid A Conjugate Vaccine of M/s. Zydus Lifesciences Ltd. as compared to Typhoid Vi Conjugate Vaccine of M/s Zydus Lifesciences Ltd. in healthy participants" vide protocol no. BTPT.24.001; Version No.01; Dated: 21 Jan 2025.
2. The firm has to submit the Bioanalytical Method validation for the ELISA assay for assessment of anti-LPS antibodies and Serum Bactericidal Assay (SBA) for assessment of antibodies against paratyphoid A antigen before analysis of clinical sample.
3. A data safety monitoring board (DSMB) will be constituted to monitor data on an on-going basis to ensure the continuing safety of the participants enrolled in this study and for inclusion of sequentially lower age cohorts in the study (age de-escalation).

4. The formulation intended to be used in the clinical trial shall be manufactured under GMP conditions using validated procedures and shall have on-going stability programme to ascertain that the available long-term stability data cover the entire duration of clinical trial.
5. Only CDL, Kasauli certified batches shall be used in the clinical trial.

Place: New Delhi  
Date:

(Dr. Rajeev Singh Raghuvanshi)  
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