

### What's new ...

To actively participate in the growing CRAMS (Custom Research And Manufacturing Services) space, Calyx has proactively built a well equipped state-of-the-art R&D facility duly approved by DSIR (Department of Scientific & Industrial Research), India. It spans over 40,000 sq. ft. and is designed to house more than 300 scientists. To cater to varied custom synthesis requirements it has 6 Synthesis labs of 1000 sq. ft. each, 3 Analytical development labs of 1000 sq. ft. each, a Bio-analytical lab, cGMP Kilo Labs and cGMP Pilot Plant facility. It can handle special requirements like highly potent APIs and supports Regulatory & IPR group.

### CRAMS (Custom Research And Manufacturing Services) Calyx India Advantage

Calyx has a 28 - year history of building up successful partnerships. Calyx is poised to actively participate in this growing opportunity of outsourcing and contract manufacturing. It is the one stop solution provider for **Custom Synthesis, FTE Research, Contract Manufacturing, Intermediates and APIs.**

The multipurpose manufacturing plants have capabilities to produce in compliance with cGMP, USFDA, WHO, EDQM, ISO, IHS and CoS norms, while, our global footprint includes marketing and sales offices in US, Japan and sourcing office in China. This enhanced communication and working 24x7 fosters business relations.

Calyx, over the years, has systematically harnessed resources and developed a capability that spans the entire spectrum of vital services. It includes focus on integrated chemistry solutions ranging from discovery chemistry, route scouting, process research, scale up and analytical support. Capability to handle critical and innovative chemistry ensures delivering diverse molecules from grams to tons in timely and cost effective manner. Commitment to IPR and CDAs supported with system security and firewall ensures smooth project management.

In the past few years, the Company has entered into agreements with companies across the world and has become an **integral part of their supply chain.**

Calyx offers a range of APIs, chemical intermediates and building blocks to Pharmaceuticals, Biotech, Chemical and Drug discovery companies. This includes **Pyrazines, Tetrazoles, benzimidazoles, Thiazoles, Methylenedioxy phenyl derivatives, Protected amino acids, Dipeptides, Zopiclone, Pyrazinamide, Erythromycin salts** and many more.

Passion for excellence and commitment in quality, safety, environment and technical capabilities enable Calyx to deliver in a highly professional manner and with a sense of urgency while upholding the highest business ethics.

### Malaria : The Growing Menace

Malaria, a tropical parasitic disease, affects 350 - 600 million people every year, and kills 1 - 3 million people annually in Africa alone of which 75 % deaths are of children.

Artemisinin is the antimalarial principle isolated by Chinese scientists from the herb *Artemisia annua L.* Artemisinin and its derivatives are the most rapidly acting antimalarial drugs effective against falciparum malaria including multidrug resistant infections and are, at present the only group of antimalarial drugs to which resistance of *P. falciparum* has not yet developed in the field.

Calyx has launched the full range of artemisinin derivatives - Arteether, Artemether, Artesunate and Dihydroartemisinin, to play an essential role in malaria control.

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### APIs

#### Commercial Scale

Alendronate sodium  
Arteether  
Artemether  
Artesunate  
Azithromycin  
Cetirizine dihydrochloride  
Chloramphenicol palmitate  
Clopidogrel bisulphate  
Coenzyme Q10  
Dihydroartemisinin  
Erythromycin base  
Erythromycin estolate  
Erythromycin ethyl succinate  
Erythromycin oxime (intermediate)  
Erythromycin phosphate  
Erythromycin propionate  
Erythromycin stearate  
Isoniazid  
Lisinopril dihydrate  
Losartan potassium  
Pyrazinamide  
Rifampicin  
Roxithromycin  
Sodium valproate  
Valproic acid  
Venlafaxine hydrochloride  
Zoledronic acid  
Zopiclone

#### Pilot Plant Scale

Carvedilol  
Clarithromycin  
Pioglitazone hydrochloride  
Rosiglitazone maleate  
Valsartan

#### R & D Scale

Lumefantrine  
Pamidronate disodium  
Perindopril erbumine  
Zolpidem tartrate

#### Development

Benazepril hydrochloride  
Candesartan  
Desvenlafaxine  
Glipizide  
Irbesartan  
Levocetirizine  
Rifabutin  
Rifapentine  
Ramipril  
Risedronic acid  
Telmisartan

Products under patent offered only for exempted research, clinical and development purposes. Only non-infringing products and processes are offered, subject to patent status verification by client.

**"Meet us at CPhI Worldwide 2007, Milan Italy, Oct 2-4, 2007, at Hall 14, Stand 14H09"**  
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