



Department of Biotechnology
Ministry of Science & Technology
Government of India

Call for Proposals in the Area of Genome Engineering Technologies and
Their Applications

The Task Force on Genome Engineering Technologies and Their Applications invites proposals for:

A. Development of new methods, tools, processes and platforms for genome-wide studies:

Examples include the development of multi-marker measurement at the level of single cells or a small set of cells, new DNA sequencing technologies or array platforms, detection instruments like PCR for large-scale analyte measurement, imaging systems, multi-dimensional data analyses, single cell measurements, mass-spectrometry and data analytics.

Proposals should clearly specify:

- Current state of the technology in the national and international context
- Novelty of the technology being proposed to develop
- Potential applications

B. Novel applications and improvement of genome wide technology platforms as well as genome-editing methods:

Examples include the application of emerging genome-editing technologies such as CRISPR, TALEN and emerging approaches to homologous recombination in large scale, including development and establishment of high throughput techniques to modify gene expression in space and time or validating the importance of QTL/SNP loci.

Proposals should include:

- Technologies that will be used and/or improved
- Scope of development of resources to be made available for the larger biological science community

Preference will be given to multi-disciplinary, multi-institutional or networking efforts. Applications that seek to address highly focused scientific questions rather than method development (A) or genome-wide application of a technology platform (B) should apply to other task forces relevant to the specific scientific question at hand. Mere use of technology platforms for a specific biological question is not sufficient for consideration by this Task Force.

Interested applicants are requested to submit full proposal in DBT format online through E-promis (dbtpromis.nic.in) before **30th June, 2015**.