



EXPRESSION OF INTEREST (EOI)

FOR

**INVITING COORDINATED MULTI-INSTITUTIONAL OR
NETWORK RESEARCH PROJECT PROPOSALS ON SELECTED
THIRTEEN (13) MEDICINAL PLANTS SPECIES**



**GOVERNMENT OF INDIA
MINISTRY OF AYUSH
NATIONAL MEDICINAL PLANTS BOARD**

Issued by:

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National Medicinal Plants Board (NMPB) is having Central Sector Scheme (CSS) on conservation, development and sustainable management of medicinal plants for providing financial support to the project proposals in different components of the scheme viz. in-situ & ex-situ Conservation, Research & Development (R&D), Raw Drug Repository ((RDR), Information, Education & Communication (IEC), Herbal garden etc. for promotion of medicinal plants.

In the context of R&D, NMPB has desired to invite Coordinated Multi-institutional projects or Network projects on selected thirteen (13) medicinal plants species namely *Tinospora cordifolia*, *Cannabis sativa*, *Habenaria edgeworthii*, *Taxus baccata*, *Panax ginseng*, *Paris polyphylla*, *Swertia chirata*, *Solanum nigrum*, *Nordostachys jatamansi*, *Oroxylum indicum*, *Aconitum chasmanthum*, *Coptis teeta* and *Saussurea costus*.

Objectives:

- To promote research work in all aspects on these selected plants species and validate the already available research work.
- To compile, documentation and digitization of scientific information in respect of selected plants species.
- To make available the research data/information to ASU industry, Primary Producer Companies (PPCs), farmers etc. for further use.

Sectors of Interest:

The organizations who wish to undertake this R&D activity in a coordinated project mode involving many numbers of institutions and PIs, may send their project proposals as per the CSS guidelines.

Projects proposals:

NMPB will invite R&D proposals in respect of selected plant species through EoI throughout the calendar year. The project should be focused on germplasm collection,

characterization and conservation, study on genomics, varietal development and market study.

Procedure for approval:

- Receipt of project proposals
- Screening by Internal Screening Committee (ISC)
- Reviewing and recommendation by Project Screening Committee (PSC)
- Approval by Standing Finance Committee (SFC)

Activities

- Collection, Characterization & Conservation of germplasm and field evaluation of accessions and morphological and molecular characterization of collected samples.
- Study of Genomics and geographical distribution of the species with accession level characterization of species using biochemical and molecular markers.
- Development of improved planting materials, establishment of a well characterized genetically diverse gene bank of selected accessions, development of spectrometry HPLC methods for phyto-constituents (preferably the bio-actives/marker compounds) and validation of these methods.
- Standardization of agro-technology, agro-economics and exploring the scope of including these species in cropping system in the form of intercrop, boundary rope mixed crop and agro-forestry.
- Bioactivity guided fractionation studies.
- Varietal development and identification of substitutes/adulterants of said medicinal plants using pharmacognostic, pharmacological and molecular parameters for their inclusion in Pharmacopoeia.
- Study of phyto-chemical variations within available genotypes, chemotypes, ecotypes etc., development of post-harvest treatment, search for elite quality germplasm and development of quality planting material for mass scale propagation.
- Collection, compilation, documentation, validation and digitization of published scientific information on various aspects of the medicinal plants species and their ASU & H formulations and preparations of comprehensive monographs thereof.
- Establishment of quality standards in respect of norms related to toxicity and heavy metal content to increase acceptability of botanicals in the International market.
- Traceability of raw drugs of medicinal plants species from harvest to consumption level.

Eligibility

- R&D Institutions under CSIR, ICAR, ICFRE, ICMR, DBT, DST, Councils of Department of AYUSH etc.
- Universities recognized by the UGC.
- Industry both in public as well as private sector with R&D facilities.

- Non-government Organisations/Voluntary Organisations, with demonstrated expertise and infrastructure.
- Government funded institutes/colleges with demonstrable track record infrastructure and expertise.

Norms of Assistance:

R&D Institutions/Universities in the public sector/Government Aided colleges etc. will be eligible for 100% assistance. However, organizations/labs/Institutions in private sector will be eligible for 50% assistance.

Submission of Proposals:

The eligible organization can apply directly to NMPB in the relevant proforma at **Annexure – IV** of Central Sector Scheme (CSS) guidelines which is available at NMPB's website i.e. www.nmpb.nic.in

Note: For other relevant information like procedure for processing project proposals for approval, implementation and monitoring of the projects, general conditions as required for submission of the proposals etc. are given under CSS guidelines.