

**പതിനാലാം കേരള നിയമസഭ**


**പത്താം സമ്മേളനം**

**നക്ഷത്രചിഹ്നമിടാത്ത നിയമസഭാ ചോദ്യം നം.58**

**26/02/2018-ൽ മറുപടിയ്ക്ക്**

**ടി.ബി.ജി.ആർ.ഐ**

| <b>ചോദ്യം</b><br><b>ശ്രീ.ഡി.കെ.മുരളി</b> |   | <b>ഉത്തരം</b><br><b>ശ്രീ. പിണറായി വിജയൻ</b><br>(മുഖ്യമന്ത്രി) |   |
|--|---|---|---|
| (എ)                                      | പാലോട് ടി.ബി.ജി.ആർ.ഐ. യുടെ നിലവിലുള്ള പ്രോജക്ടുകൾ ഏതൊക്കെയാണ് വിശദമാക്കാമോ ;        | (എ)   | ജെ.എൻ.റ്റി.ബി.ജി.ആർ.ഐ. യിൽ സംസ്ഥാന ഗവൺമെന്റിന്റെ പ്ലാൻ ഫണ്ട് ഉപയോഗിച്ച് 13 പ്രോജക്ടുകളും മറ്റുവിവിധ ഫിംഗ് ഏജൻസികളുടെ (കേന്ദ്ര സംസ്ഥാന ഏജൻസി) സഹായത്താൽ 51 പ്രോജക്ടുകളും നിലവിലുണ്ട്. (വിശദവിവരം അനുബന്ധം എ യിൽ കാണാവുന്നതാണ്)   |
| (ബി)                                     | ടി.ബി.ജി.ആർ.ഐ. യ്ക്ക് എവിടെ നിന്നെല്ലാം ഫണ്ട് ലഭിക്കുന്നുണ്ട് എന്ന് വിശദീകരിക്കാമോ; | (ബി)  | സംസ്ഥാന ഗവൺമെന്റിൽ നിന്നും പദ്ധതിയിനത്തിലും, പദ്ധതിയിതരയിനത്തിലും കൂടാതെ Council of Scientific and Industrial Research (CSIR), Department of Atomic Energy, Department of AYUSH, Department of Bio Technology (DBT), Department of Science and Technology (DST), Indian Council for Medical Research (ICMR), National Bank for Agricultural and Rural Development (NABARD), University Grants Commission (UGC), United Nations Development Programme (UNDP), Department of Tourism Government of Kerala, Kerala Agriculture University, Energy Management Center, Fish Farmers Development Agency (FFDA), Kerala State Council for Science Technology and Environment (KSCSTE), Kerala State Industrial Development Corporation (KSIDC) തുടങ്ങി വിവിധ ഏജൻസികളിൽ നിന്നും ഫണ്ട് ലഭിക്കുന്നുണ്ട് (വിശദവിവരം അനുബന്ധം ബി. യിൽ കാണാവുന്നതാണ്). |
| (സി)                                     | ടി.ബി.ജി.ആർ.ഐ. യ്ക്ക് 2013 മുതൽ ലഭിച്ച ഫണ്ട് വിവരങ്ങൾ നൽകാമോ?                       | (സി)  | ജെ.എൻ.ടി.ബി.ജി.ആർ.ഐ. ക്ക്ക് 2013 മുതൽ സംസ്ഥാന ഗവൺമെന്റിന്റെ പദ്ധതി വിഹിതമായി 3518.89 ലക്ഷം രൂപയും, പദ്ധതിയിതര വിഹിതമായി 4756 ലക്ഷം രൂപയും, മറ്റ് കേന്ദ്ര സംസ്ഥാന ഫിംഗ് ഏജൻസികൾ 2527.11 ലക്ഷം രൂപയും ലഭിച്ചിട്ടുണ്ട് (വിശദവിവരം അനുബന്ധം സി. യിൽ കാണാവുന്നതാണ്).   |

  
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# ANNEXURE - A

JNTBGRI

PLAN PROGRAMMES 2017 - 18

(Revised as per suggestion of Working Group meeting held)

| Sl. No. | Division/Section   |
|---------|--|
| 1       | Biotechnology and Bioinformatics   |
| 2       | Conservation Biology   |
| 3       | Ethnomedicine and Ethnopharmacology  |
| 4       | Garden Management, Education, Information and Training                     |
| 5       | Microbiology   |
| 6       | Microbiology - CARC  |
| 7       | Phytochemistry and Phytopharmacology                                       |
| 8       | Plant Genetic Resources  |
| 9       | Plant Systematics and Evolutionary Science                                 |
| 10      | PS & ES Division - Mushroom Research Lab                                   |
| 11      | Saraswathi Thangavelu Extension Centre                                     |
| 12      | R & D Sub Centre Kuzhoor   |
| 13      | Improvement of Existing Landscape and Field Gene Bank (Research Component) |


## Annexure A

| Sl. No. | Code  | Project title  | Project Investigators | Name of funding agency  |
|---------|-------|--|-----------------------|---|
| 1       | A-19  | Establishment of Sub-Distributed Information centre at TBGRI under Bio informatics Programme   | Dr S. Sreekumar       | Department of Biotechnology, Govt. of India                   |
| 2       | A-113 | Development of Tissue Culture Protocol for mass propagation of selected Screw pine ( <i>Pandanus</i> spp.) plants leading to technology transfer and establishment of tissue culture facility at KIDS  | Dr K. Satheeshkumar   | KSIFDC, Govt. of Kerala                                       |
| 3       | A157  | Finance Assistance for the DBT Expert Committee Meeting  | Director              | DBT Govt. of India  |
| 4       | A160  | Conservation of <i>Garcinia imbertii</i> Bourd-An Endangered Endemic Tree of Southern Western Ghats through Population Studies and Seed Biology  | Dr C Anilkumar        | SERB, Govt. of India  |
| 5       | A168  | Production and Supply of Quality Seedlings of selected 10 Medicinal Plants   | Dr Mathew Dan         | State Medicinal Plants Board, Govt. of Kerala                 |
| 6       | A172  | Genomic Characterization of wild <i>Musa</i> spp. Using Microsatellites and its pollen cryobank development.   | Dr S Mukunthakumar    | DBT Govt. of India  |
| 7       | A176  | Identification of Potential Chemical Marker Compounds and Biological Studies of <i>Gloriosa superba</i> and their Geographical Variations  | Dr S.R. Suja          | National Medicinal Plant Board, Govt. of India                |
| 8       | A180  | Identification of indicator species for special conservation efforts   | Dr P Balakrishnan     | UNDP, Govt. of India  |
| 9       | A186  | Medical Mushrooms of Kerala  | Dr K B Vrinda         | WGDP, Govt. of Kerala   |
| 10      | A187  | A Study on the Jasmine Varieties of Western Ghats Producing High Essential Oil Content with Special Emphasis on Commercialization of essential oil for Perfumery by Rural Women for their Empowerment. | Dr Suja S R           | WGDP, Govt. of Kerala   |
| 11      | A189  | Stakeholders Consultative Workshops for Integrated Waste Management Plan.  | Dr N S Pradeep        | Department of Environment and Climate Change, Govt. of Kerala |
| 12      | A190  | Mapping Environmental issues and Developing Management Plan for Vamanapuram River Basin  | Director              | Department of Environment and Climate Change, Govt. of Kerala |
| 13      | A191  | Waste Management and Recycling, Waste to Garden-Proposal with Recycling (Non-Biodegradable) Waste  | Dr N S Pradeep        | Department of Environment and Climate Change, Govt. of Kerala |

| Processing Programme (Zero Waste Ward) |        |  |                    |                         |
|--|--------|--|--------------------|-------------------------|
| 14                                     | A192   | KSCSTE Studentship Programme   | Ms Hima S          | KSCSTE, Govt. of Kerala |
| 15                                     | A193A1 | Community plant-pollinator interactions at the landscape level   | Dr A K Sreekala    | DBT, Govt. of India     |
| 16                                     | A193A2 | Ecology and Conservation of Fresh water Swamp Ecosystems of the Western Ghats-Kerala Region  | Dr Rajendra Prasad | DBT, Govt. of India     |
| 17                                     | A193A3 | Comparative Biogeography of Plants of the Western Ghats  | Dr N Mohanan       | DBT, Govt. of India     |
| 18                                     | A193B1 | Identification of the elite lines of <i>Centella asiatica</i> and <i>Bacopa monnieri</i> for commercially significant constituents for standardization of their extracts.                  | Dr B Sabulal       | DBT, Govt. of India     |
| 19                                     | A193B2 | Bio-prospecting of two coded anti-diabetic medicinal plants based on ethnomedical leads with special reference to diabetic complications. A molecular Pharmacological Approach             | Dr S R Suja        | DBT, Govt. of India     |
| 20                                     | A193B3 | Metabolic pathway analysis of L-dopa synthesis in <i>Mucuna pruriens</i> L. by characterization of catecholamine pathway with emphasis on modulation of tyrosine hydroxylase genes         | Dr P Padmesh       | DBT, Govt. of India     |
| 21                                     | A193B4 | Antiviral from medicinal plants of Western Ghats selected based on Traditional Knowledge/Ethnomedical information  | Dr S R Suja        | DBT, Govt. of India     |
| 22                                     | A193B5 | Characterization, recombinant expression process scale up and validation of selected hydrolases from native action-bacteria for commercial exploitation                                    | Dr S Shiburaj      | DBT, Govt. of India     |
| 23                                     | A196   | Floristic Studies of VSSC Campus, Thiruvananthapuram   | Dr N Mohanan       | VSSC, Govt. of India    |
| 24                                     | A199   | Conservation of seven RET medicinal plants of the Western Ghats through Standardization of Seed and Seedling Identification, Germination, Species Restoration, Seed and Field Gene Banking | Dr C Anilkumar     | MoEF, Govt. of India    |
| 25                                     | A200   | A Molecular Approach on Development of a Potent Herbal Drug against Arthritis Based on Tribal/ Traditional Knowledge.  | Dr Anuja G I       | SERB, Govt. of India    |
| 26                                     | A201   | Production and Characterization of $\beta$ -Glucanase from   | Lekshmi K Edison   | KSCSTE, Govt. of Kerala |

|    |      |  |                      |  |
|----|------|--|----------------------|--|
|    |      | <i>Streptomyces</i> sp.  |                      |  |
| 27 | A202 | Inspire Fellowship Programme   | Smt. Sakthipriya M   | DST, Govt. of India                              |
| 28 | A203 | Genetic Diversity Conservation and Population Study of Selected Notified Endangered Plant Species of Western Ghats Region of Kerala  | Dr S William Decruse | Kerala State Biodiversity Board, Govt. of Kerala |
| 30 | A206 | Studies on the molecular mechanism of action of anti-inflammatory potential of two traditionally used pteridophytes in southern region of Western Ghats  | Dr Sobha Bhaskar     | KSCSTE, Govt. of Kerala                          |
| 31 | A207 | Investigation of the potential anti-inflammatory properties of <i>Pyrrrosia heterophylla</i> . L on inhibiting and reversing alcoholic hepatitis.  | Dr Ratheesh R        | KSCSTE, Govt. of Kerala                          |
| 32 | A208 | Publication of the Journal of Traditional and Folk Practices   | Director             | KSCSTE, Govt. of Kerala                          |
| 33 | A212 | Post Doctoral Fellowship to Dr VS Biba   | Dr VS Biba           | KSCSTE, Govt. of Kerala                          |
| 34 | A215 | Functional Validation of Selected Medicinal Plants with Proven Anti-diarrhoeal and Anti-Vibro Properties : Towards making a herbal formulation to improve rehydration following infectious Gastroenteritis | Dr A. Shiburaj       | KSCSTE, Govt. of Kerala                          |
| 35 | A216 | Patterns of tree cavity occurrence and use by vertebrates in tropical forests of the Western Ghats : a community web approach and its implications in forest management                                    | Dr P. Balakrishnan   | MoEF & Climate Change, Govt. of India            |
| 36 | A218 | Establishment of a Model Nursery Unit for Medicinal Plants in Public Sector  | Dr Mathew Dan        | State Horticulture Mission, Govt. of Kerala      |
| 37 | A219 | Establishment of a Herbal Garden at Raj Bhavan   | Dr Mathew Dan        | State Medicinal Plants Board, Govt. of Kerala    |
| 38 | A220 | National Post Doctoral Fellowship to Dr Deepu Sivadas  | Dr Deepu Sivadas     | DST, Govt. of India                              |
| 39 | A221 | Consultancy on herbal garden development, production and supply of selected medicinal plant species for 'Grameenam' programme at Peringammala Grama Panchayath   | Dr Mathew Dan        | State Medicinal Plants Board, Govt. of Kerala    |
| 40 | A222 | Development of Lakeshore Leisure Trail Landscape, JN IBGRI, to enhance the aesthetics of the Garden  | Dr Rajvikraman       | Tourism Dept., Govt. of Kerala                   |

|    |      |   |                             |  |
|----|------|---|-----------------------------|--|
| 41 | A223 | Entrepreneurship Development among Rural Groups through Training and Capacity Building  | Dr NS Pradeep               | KSCSTE, Govt. of Kerala                      |
| 42 | A225 | Cultivation, Conservation and Sustainable Utilization of Medicinal Plants Through the Participation of Unemployment Women Folks   | Dr S. Binu                  | SEEDD, DST, Govt. of India                   |
| 43 | A227 | ICMR Research Associateship   | Dr Jisha S.                 | ICMR, Govt. of India                         |
| 44 | A228 | Research contingency grant for 5 students   | Director                    | Kerala Agricultural University               |
| 45 | A229 | Biotransformation of saponins to diogenin for enhanced yield from <i>Dioscorea</i> sp using indigenous fungal strains   | Dr Reji SR<br>PDF Programme | KSCSTE, Govt. of Kerala                      |
| 46 | A230 | Research Fellowship   | Smt. Ragitha VM             | KSCSTE, Govt. of Kerala                      |
| 47 | A232 | Post Doctoral Fellowship  | Dr S. Pradeep               | KSCSTE, Govt. of Kerala                      |
| 48 | A233 | Effect of selected nanoparticles synthesized from plant secondary metabolite on seizures induced by kainic acid in mice   | Dr V. Gayathri              | KSCSTE, Govt. of Kerala                      |
| 49 | A236 | PDF Programme - Molecular, Protomic and Functional studies on Protease producing <i>Exiguobacterium indicum</i> related species and evaluation of its plastic degradation ability | Dr Rachana Mol RS           | KSCSTE, Govt. of Kerala                      |
| 50 | A237 | Production and Supply of Quality Seedlings of Arya Veppu and Curry Veppu  | Dr Sam P. Mathew            | State Medicinal Plant Board, Govt. of Kerala |
| 51 | A238 | Mohamed bin Zayed Species Conservation Fund for <i>Cycas annaikalensis</i> in India   | Dr P. Balakrishnan          | MBZ Species Conservation Fund, Abu Dhabi     |

  
 03/29/2023

Answer -

(b)

Source of fund

|  |
|--|
| BGCI, U.K.   |
| CSIR, Govt. of India   |
| Department of Atomic Energy (DAE), Board of Research in Nuclear Sciences (BRNS), Govt. of India      |
| Department of AYUSH, Ministry of Health & Family Welfare, Govt. of India                             |
| Department of Environment and Climate Change, Govt. of Kerala  |
| Department of Tourism, Govt. of Kerala   |
| Dept. of Biotechnology, Govt. of India   |
| Dept. of Plantation Crops & Spices, College of Horticulture, Kerala Agriculture University, Thrissur |
| Department of Science and Technology, Govt. of India   |
| Energy Management Centre, Govt. of Kerala  |
| FFDA, Govt. of Kerala  |
| ICMR, Govt. of India   |
| Kerala Bureau of Industrial Promotion, Govt. of Kerala   |
| Kerala Forest Dept., Govt. of Kerala   |
| Kerala State Biodiversity Board, Govt. of Kerala   |
| KSCSTE, Govt. of Kerala  |
| KSIDC, Govt. of Kerala   |
| MBZ Species Conservation Fund, Abu Dhabi   |
| NABARD, Govt. of India   |
| National Games Secretariate, Govt. of Kerala   |
| SC/ST Development Department, Govt. of Kerala  |
| State Horticulture Mission, Govt. of Kerala  |
| State Medicinal Plants Board, Kerala   |
| State Poverty Eradication Mission, Kudumbashree  |
| UGC, Govt. of India  |
| UNDP, Govt. of India   |
| University of Kerala, Govt. of Kerala  |
| WGDP, Govt of Kerala   |

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## ANNEXURE - C

21.02.2018

Plan fund

| Sl. No | Period    | Received (Lakhs) | Remarks (Lakhs)                        |
|--------|-----------|------------------|--|
| 1.     | 2013 - 14 | 606.64           |  |
| 2.     | 2014 - 15 | 686.00           |  |
| 3.     | 2015-16   | 800.64           |  |
| 4.     | 2016-17   | 1201.00          |  |
| 5.     | 2017-18   | 350.00           | 125.42 lakhs has been resumed to Govt. |

3518.86

Non-Plan

| Sl. No | Period    | Received (Lakhs) |
|--------|-----------|------------------|
| 1.     | 2013-2014 | 735              |
| 2.     | 2014-2015 | 824              |
| 3.     | 2015-2016 | 1147             |
| 4.     | 2016-2017 | 1300             |
| 5.     | 2017-18   | 750              |

4756.

Grant received from external agencies at JNTBGRI from 2013-14 to 2017-2018

| Financial year | Amount received       |
|----------------|-----------------------|
| 2013-14        | 4,15,21,588           |
| 2014-15        | 3,06,52,821           |
| 2015-16        | 8,05,88,028           |
| 2016-17        | 7,96,09,548           |
| 2017-18        | 2,03,39,325.8         |
| <b>Total</b>   | <b>25,27,11,310.8</b> |

*[Handwritten Signature]*  
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