

No. BT/PR7174/PBD/16/1020/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 14/10/2014

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Genetic engineering for male sterility by the expression of Cysteine Protease (CP) gene in Chilli Pepper (Capsicum annum L.)**" for a period of 3 Year 0 Month at a total cost of Rs. **4264000** (Rupees Forty Two Lakhs Sixty Four Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Genetic engineering for male sterility by the expression of Cysteine Protease (CP) gene in Chilli Pepper (Capsicum annum L.)"

2.2 Details of the Investigators:

Prof. Sadanandam Abbagani
Dean
Faculty of Science, Department of
Biotechnology
Kakatiya University
Vidyananyapuri, Warangal -
506009, Andhra Pradesh

CO-PI:

Dr. Peddaboina Venkataiah
Assistant Professor
Department of Microbiology
Kakatiya University
Vidyananyapuri, Warangal - 509009, Andhra
Pradesh

Dr. Allini Venkateswar Rao
Assistant Professor
Department of Biotechnology
Kakatiya University
Vidyananyapuri, Warangal - 509009, Andhra
Pradesh

N. Srinivas

2.3 Objectives:

Institute wise Objectives:

1. To optimize Agrobacterium tumefaciens mediated genetic transformation and evaluation of different parameters and production of stable transformants with CP gene.
2. Molecular characterization of CP gene in transgenics using PCR, southern blotting, Northern blotting and Western blotting techniques.
3. Acclimatization under greenhouse conditions to study anther morphology and pollen germination analysis of male sterile transgenics.

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **4264000/-** (Rupees Fourty Two Lakhs Sixty Four Thousand Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Kakatiya University	2918000	678000	668000	4264000
Total (Rs.)	2918000	678000	668000	4264000

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
Equipment	2100000.00			2100000.00
Manpower	288000.00	288000.00	288000.00	864000.00
Overhead	50000.00	30000.00	20000.00	100000.00
Travel	30000.00	30000.00	40000.00	100000.00
Consumables	400000.00	300000.00	300000.00	1000000.00
Contingency	50000.00	30000.00	20000.00	100000.00
Total (Rs.)	2918000.00	678000.00	668000.00	4264000.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

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3. **Head of Account:**

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2014-2015
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Research & Development
3425.60.200.29.01	Agriculture Biotechnology and Allied Areas
3425.60.200.29.01.35	Grants for creation of capital Assets

The **Recurring** expenditure involved is debitable to:


Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2014-2015
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Research & Development
3425.60.200.29.01	Agriculture Biotechnology and Allied Areas
3425.60.200.29.01.31	Grants-in-Aid General

4. Terms & Conditions:

- 4.1** The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2A** Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV
- 4.3** The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
- 5.** No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 6.** The Registrar, Kakatiya University, Warangal, Andhra Pradesh would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

(Handwritten Signature)


7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.20020/11/97-IFD dated 31st March, 2010. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
8. The accounts of grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so by the sanctioning authority.
9. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/2848/2014-2015** dated **October, 09 2014**.
10. This sanction order has been noted at serial no. _____ in the Register of Grants.


Dr. Meenakshi Munshi
(Scientist 'F')

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.

Copy to:

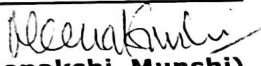
- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Registrar, Kakatiya University, VIDYARANYAPURI, Warangal, Warangal - 506009, Andhra Pradesh
- 3 Dr. Allini Venkateswar Rao, Assistant Professor, Department of Biotechnology, Kakatiya University, Vidyananyapuri, Warangal - 509009, Andhra Pradesh
- 4 Dr. Peddaboina Venkataiah, Assistant Professor, Department of Microbiology, Kakatiya University, Vidyananyapuri, Warangal - 509009, Andhra Pradesh
- 5 Prof. Sadanandam Abbagani, Dean, Faculty of Science, Department of Biotechnology, Kakatiya University, Vidyananyapuri, Warangal - 506009, Andhra Pradesh
- 6 Cash Section, DBT (2 copies).
- 7 Sanction Folder.
- 8 File Copy.


Dr. Meenakshi Munshi
(Scientist 'F')

Annexure -I

Details of the Equipment sanctioned for the implementation of the project titled "Genetic engineering for male sterility by the expression of Cysteine Protease (CP) gene in Chilli Pepper (*Capsicum annum L.*)":

Kakatiya University			
SNo.	Name of Equipment	No.	Cost(Rs.)
1.	Blotting Units with Hybridization Oven	1	420000.00
2.	Deep Freezer (-86)	1	550000.00
3.	Green/Poly house	1	1130000.00
Total			2100000.00


(Dr. Meenakshi Munshi)
Scientist 'F'

Annexure -II

Details of the manpower sanctioned for the implementation of the project titled "Genetic engineering for male sterility by the expression of Cysteine Protease (CP) gene in Chilli pepper (Capsicum annum L.)":

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
Research Assistant @ Rs.12,000/- p.m. consolidated	22	288000.00	288000.00	288000.00	864000.00
Total(Rs.)		288000.00	288000.00	288000.00	864000.00

Revised emoluments shall be payable only if educational qualification or eligibility criteria as per DST OM No. A.20020/11/97-IFD dated 31.03.2010, are met by the research personnel.

Meenakshi Munshi

(Dr. Meenakshi Munshi)
Scientist 'F'