



### 3.2 Resource Mobilization for Research

#### 3.2.3 Key Indicator: Research projects funded by the Government and Non-Government/ Agencies

#### Index (Academic Year 2019-2020)

S.No.	Name of the Scheme/Project/ Endowments/ Chairs	Name of the Principal Investigator/ Co Investigator (if applicable)	Department	Name of the Funding agency	Funds provided (INR in lakhs)	Supporting Document Page No.
1	Man Animal conflict Study	Prof. Neelu Jain Gupta	Zoology	Samajik Prani Vaniki Vibhag	3	1
2	Core Research Grant	Dr. Anil K. Malik	Physics	SERB-DST	21.27	2
3	Core Research Grant	Prof. Neelu Jain Gupta	Zoology	SERB-DST	52.90	4
4.	Germplasm Characterization and Trait Discovery in Wheat using Genomics Approaches and its Integration for Improving Climate Resilience, Productivity and Nutritional quality	PI: Dr. Shailendra Sharma; CO P.I: Dr. PK Sharma, Dr. SS Gaurav	Genetics and Plant Breeding	Department of Biotechnology	3931.87	6
5	Effects of Illuminated Night Environment on Metabolism and	Prof. Sanjay Kumar Bhardwaj Co-PI: Prof. Vinod	Zoology	SERB-DST	48.62	17

	Reproduction in Continuously Breeding Diurnal Vertebrate: A Study on Zebra Finches	Kumar				
6	Centre of excellence on training & skill development on food science and technology	PI: Dr. S.S Gaurav	Genetics and Plant Breeding	UP higher education council, Lucknow	4.5	19
7	Rice-based functional characterization of important wheat genes involved in iron uptake, translocation, and regulation. Mentor Prof. Shailendra Sharma (DBT RA PROJECT)	PI: Dr. Ritu Batra; Mentor: Dr. Dr. Shailendra Sharma	Genetics and Plant Breeding	Department of Biotechnology	14.08	22
8	Third year release of grant for project "Pyramiding of Rust Resistance Genes into High Grain Quality Wheat Lines Developed Through Marker-assisted Selection	Prof. P.K. Sharma	Genetics and Plant Breeding	DBT	14.91	23
9	Third year release of grant for project "Marker-Assisted Breeding and Mapping of QTLs for Drought Tolerance in Wheat	Prof. P.K. Sharma	Genetics and Plant Breeding	DBT	8.44	24
10	"Epigenetic regulation of host-pathogen genetics in leaf rust resistance in wheat "	Dr. P.K Gupta (Emeritus Professor) ; CO-PI: Prof. H.S Balyan. Dr. P.K	Genetics and Plant Breeding	NASF-ICAR	3	25

		Sharma				
<b>11</b>	Release of Final grant for project - Identification of Quantitative Trait Loci and Underlying Candidate Genes for Seed Dormancy and Pre-harvest Sprouting Tolerance in Common Wheat	Dr. Sachin Kumar, Co-PI: Dr. H.S Balyan	Genetics and Plant Breeding	SERB - DST	50.6	<b>26</b>
<b>12</b>	Second year release of grant for project "Deciphering Genetic and Epigenetic Regulation of Cereal Cyst Nematode (CCN) Resistance in Wheat	PI: Dr. Shiveta Sharma	Genetics and Plant Breeding	DBT	16.06	<b>27</b>

कार्यालय प्रभागीय निदेशक, सामाजिक वानिकी प्रभाग, मेरठ।

पत्रांक 2391 / 5-3 दिनांक 03- दिसम्बर 2020.

सेवा में,

कुलपति,  
चौ० चरण सिंह विश्वविद्यालय,  
मेरठ।

विषय- हस्तिनापुर वन्य जीव विहार हेतु **Conducting studies on causes and remedies of man animal conflict** के संबंध में।

महोदय,

उपरोक्त विषय पर हस्तिनापुर वन्य जीव विहार के लिए एक अध्ययन कराया जाना है। हस्तिनापुर वन्य जीव विहार की सीमाएँ प्रदेश के 5 जनपद-मेरठ, मुजफ्फरनगर, बिजनौर, अमरोहा (जे०पी० नगर) व हापुड़ में स्थित है। इस अध्ययन हेतु उत्तर प्रदेश सरकार से ₹० 3.00 लाख की धनराशि प्राप्त हुई है। उक्त अध्ययन हेतु अपनी स्वीकृति प्रदान करने का कष्ट करें, जिससे की अग्रिम कार्यवाही की जा सके।

FC/814  
4.12.20

अधीनस्थ  
प्रभागीय निदेशक  
सामाजिक वानिकी प्रभाग,  
मेरठ।

संख्या 2391

दिनांकित।

- प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित-
- 1- मुख्य वन संरक्षक, पश्चिमी क्षेत्र, मेरठ।
  - 2- वन संरक्षक एवं क्षेत्रीय निदेशक, सामाजिक वानिकी मेरठ क्षेत्र, मेरठ।
  - 3- प्रो० नीरू जैन गुप्ता Head Department of Zoology Department of Hospital Administration Chaudhary Charan Singh University Meerut.

Honourable VC Sir,

This money shall include hiring, logistics, BA, refreshments and report writing/videography charges. I shall be coordinating this project.

प्रभागीय निदेशक  
सामाजिक वानिकी प्रभाग,  
मेरठ।

मा० कुलपति जी

उपरोक्त प्रस्तावित कार्य Project के रूप में अनुमति के लिए

JK Letter 4.

डा० नीरू जैन नोडल अधिकारी वन विभाग  
क२ ना चोटे प्रस्तावित व्यय विश्व विद्यालय  
के निपटारे के लिए प्रस्तावित व्यय के लिए वन विभाग  
के निपटारे के लिए प्रस्तावित व्यय के लिए वन विभाग  
1/12/2020

Ax For the project of Human-Animal Conf She may be as PI. and money on this account transferred as

FILE NO. CRG/2019/003236  
 SCIENCE & ENGINEERING RESEARCH BOARD (SERB)  
 (A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor  
 Vasant Square Mall  
 Plot No. A, Community Centre  
 Sector-B, Pocket-5, Vasant Kunj  
 New Delhi-110070

Dated: 08-Jan-2020

**ORDER**

Subject: Financial Sanction of the research project titled "Development of Tunable and Bright Terahertz Source: Applications in Communications and Imaging" under the guidance of Dr. Anil Kumar Malik, Physics, Choudhary Charan Singh University, University main rd, Ramgarhi, Meerut, Uttar Pradesh-250005 and by Dr. Updesh Verma, ASST PROFESSOR, PHYSICS, Manyawar Kanshiram Government Degree College - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2127400/- (Rs. Twenty One Lakh Twenty Seven Thousand Four Hundred Only) with break-up of Rs. 350000/- under Capital (Non-recurring) head and Rs. 1777400/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 2127400/- has been approved are given below:

S.No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Computer and accessories	350000
A'	Total (Non-Recurring)	350000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1164000 400000 20000
2	Recurring - IV : (Overhead Charges)	193400
B'	Total (Recurring)	1777400
C	Total cost of the project (A' + B')	2127400

2. Sanction of the SERB is also accorded to the payment of Rs. 350000/- (Rupees Three Lakh Fifty Thousand only) under 'Grants for creation of capital assets' and Rs. 606000/- (Rupees Six Lakh Six Thousand only) under 'Grants-in-aid General' to Vice Chancellor, Choudhary Charan Singh University, University Main Rd, Ramgarhi being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant. (PAC Physics-2 (Lasers Optics Atomic & Molecular Physics, Plasma High Energy Nuclear Physics Astronomy & Astrophysics and Nonlinear dynamics))

4. The Sanction has been issued to Choudhary Charan Singh University, University Main Rd, Ramgarhi with the approval of the competent authority under delegated powers on 02 January, 2020 and vide Diary No. SERB/F/8470/2019-2020 dated 03 January, 2020

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

11. The release amount of Rs. 956000/- (Rupees Nine Lakh Fifty Six Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	ccsu	Page 3
Account Name	M/s. C.C.S. University Grant Account	
Account Number	20195822304	
Bank Name & Branch	Allahabad Bank Allahabad Bank, Meerut University Branch, CCS University Campus, Meerut (UP)-250004	
IFSC/RTGS Code	ALLA0210144	
Email id of A/C Holder	registrar@ccsuniversity.ac.in	
Email id of PI	anilmalikiitd@gmail.com	

12. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

13. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

14. The project File no. CRG/2019/003236 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.

16. As this is the first grant being released for the project, no previous U/C is required.

17. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

19. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board.

*Nilotpal Ghosh*  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to:-

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Anil Kumar Malik Physics Choudhary Charan Singh University, University main rd, Ramgarhi, Meerut, Uttar pradesh-250005 Email: anilmalikiitd@gmail.com Mobile: 919654557573  Dr. Updesh Verma PHYSICS Manyawar Kanshiram Government Degree College (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Vice Chancellor, Choudhary Charan Singh University, University Main Rd, Ramgarhi  (Receipt of Grant may be intimated by name to the undersigned)

*Nilotpal Ghosh*  
(Dr. Nilotpal Ghosh)  
MS  
nilotpal@serb.gov.in

FILE NO. CRG/2019/002542  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
 (A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor  
 Vasant Square Mall  
 Plot No. A, Community Centre  
 Sector-B, Pocket-5, Vasant Kunj  
 New Delhi-110070

Dated: 27-Feb-2020

**ORDER**

Subject: Financial Sanction of the research project titled "**Molecular correlates of metabolic changes during migration in adult male redheaded buntings, *Emberiza bruniceps***" under the guidance of **Dr. Neelu Jain Gupta, ZOOLOGY, Choudhary Charan Singh University, University main rd, Ramgarhi, Meerut, Uttar pradesh-250005 - Release of 1st grant.**

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 5290240/- (Rs. Fifty Two Lakh Ninety Thousand Two Hundred and Forty Only) with break-up of Rs. 1800000/- under Capital (Non-recurring) head and Rs. 3490240/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 5290240/- has been approved are given below:

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Nanodrop -> Cold storage unit -> Chronocubicle and aviary -> RT-PCR	1800000
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>1800000</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1350240 1650000 10000
2	Recurring - IV : (Overhead Charges)	480000
<b>B'</b>	<b>Total (Recurring)</b>	<b>3490240</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>5290240</b>

2. Sanction of the SERB is also accorded to the payment of Rs. 1800000/- (Rupees Eighteen Lakh only) under 'Grants for creation of capital assets' and Rs. 1200000/- (Rupees Twelve Lakh only) under 'Grants-in-aid General' to Vice Chancellor, Choudhary Charan Singh University, University Main Rd, Ramgarhi being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER)  
 This release is being made under Core Research Grant. (Organismal and Evolutionary Biology(Animal Sciences))

4. The Sanction has been issued to Choudhary Charan Singh University, University Main Rd, Ramgarhi with the approval of the competent authority under delegated powers on 26 February, 2020 and vide Diary No. SERB/F/10558/2019-2020 dated 26 February, 2020

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

11. The release amount of Rs. 3000000/- (Rupees Thirty Lakh only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	ccsu
Account Name	C.C.S. University Grant Account
Account Number	8580101004528
Bank Name & Branch	Canara Bank Canara Bank, Meerut University Road, M-178-2, ShriNath ji Complex, Meerut
IFSC/RTGS Code	CNRB0008580
Email id of A/C Holder	registrar@ccsuniversity.ac.in
Email id of PI	dmeelujgupta@hotmail.com

12. The institute will furnish to the SERB, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

13. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

14. The project File no. CRG/2019/002542 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.


15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.

16. As this is the first grant being released for the project, no previous U/C is required.

17. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

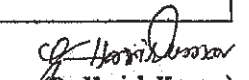
19. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board.

  
(Dr. Harish Kumar)  
Scientist E  
ms\_as@serbonline.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Neelu Jain Gupta ZOOLOGY Choudhary Charan Singh University, University main rd, Ramgarhi, Meerut, Uttar pradesh-250005 Email: dmeelujgupta@hotmail.com Mobile: 919873900878 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a> .)
5.	Vice Chancellor, Choudhary Charan Singh University, University Main Rd, Ramgarhi  (Receipt of Grant may be intimated by name to the undersigned)

  
(Dr. Harish Kumar)  
Scientist E  
ms\_as@serbonline.in



No. BT/Ag/Network/Wheat/2019-20  
Ministry of Science & Technology  
Department of Biotechnology  
Government of India

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated: 29.02.2020

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 "Germplasm Characterization and Trait Discovery in Wheat using Genomics Approaches and its Integration for Improving Climate Resilience, Productivity and Nutritional quality" under mission programme of "Characterisation of Genetic Resources" for a period of 5 Years at a total cost of Rs.393174460.00 (Rupees thirty nine crore thirty one lakh seventy four thousand four hundred and sixty only) as per details in Para's below:

2. The Project:

2.1 Title: Characterisation of Genetic Resources: Germplasm Characterization and Trait Discovery in Wheat using Genomics Approaches and its Integration for Improving Climate Resilience, Productivity and Nutritional quality

2.2 Project Coordinator: Dr. Kuldeep Singh, NBPGR, New Delhi.

2.3 Project Co-coordinator: Dr. Sundeep Kumar, NBPGR, New Delhi.


2.4 Principal Investigators and Coordinators of the Sub-projects:

A. Sub Project – 1: Germplasm genomics for trait discovery: Dr. Sundeep Kumar (Coordinator), NBPGR, New Delhi. There are six (06) components in this sub-project:

- i. Component-1: NBPGR, New Delhi
  - PI - Dr. Sundeep Kumar & Dr. Amit K. Singh
  - Co-PI - Dr. Jyoti Kumari & Dr. Sherry R. Jacob
- ii. Component-2: IARI, New Delhi.
  - PI - Dr. Kiran B. Gaikwad
  - Co-PI - Dr. Rajbir Yadav & Dr. S.S. Rathore
- iii. Component-3: PAU, Ludhiana
  - PI - Dr. V.S. Sohu
  - Co-PI - Dr. Satinder Kaur, Dr. Praveen Chhuneja & Dr. Achla Sharma
- iv. Component-4: NIPGR, New Delhi
  - PI - Dr. Manoj Prasad
  - Co-PI - Dr. Swarup Kumar Parida & Dr. Debasis Chattopadhyay
- v. Component-5: IASRI, New Delhi.
  - PI - Dinesh Kumar
  - Co-PI - Dr. UB Angadi, Dr. Sarika, Dr. Mir Asif Iquebal, Dr. D.C. Mishra, Mr. Neeraj Budlakoti & Dr V.R. Akbari
- vi. Component-6: BISA, Ludhiana
  - PI - Dr. Uttam Kumar
  - Co-PI - Dr. A. K. Joshi & Dr. P. K. Bhati

B. Sub Project-2: Characterization and evaluation of wheat germplasm lines for biotic stress resistance: Dr. Vinod (Coordinator), ICAR-IARI, New Delhi. There are eleven (11) components in this sub-project:

- i. Component-1: ICAR-IARI, New Delhi
  - PI - Dr. S. K. Jha
  - Co-PI - Dr. Niharika Malik.
- ii. Component-2: IARI-RS, Wellington (T.N.)
  - PI - Dr. V.K. Vikas

 1

- Co-PI - Dr. M Sivasamy
- iii. Component-3: IIWBR RS, Shimla
  - PI – Dr SC Bhardwaj
  - Co-PI - Dr. O. P. Gangwar, Dr. Pramod Prasad
- iv. Component-4: PAU, Ludhiana
  - PI – Dr. Satinder Kaur
  - Co-PI–Dr. Praveen Chuneja, Dr.Achla Sharma, Dr.Jaspal Kaur, Dr.RituBala&Dr.Harinderjit Kaur
- v. Component-5: BHU, Varanasi
  - PI - Dr. V.K. Mishra
  - Co-PI - Dr. Ramesh Chand & Dr. Sandeep Sharma
- vi. Component-6: CSKHPKV, Palampur
  - PI – Dr. H.K. Chaudhary
  - Co-PI - Dr. Daisy Basandrai, Dr. AshwaniBasandrai& Dr. B.K. Sharma
- vii. Component-7: IARI, New Delhi
  - PI – Dr. M.S. Saharan
  - Co-PI- Dr. RashmiAggarwal, Dr. MalkhanGurjar& Dr. Atul Kumar
- viii. Component-8: IARI, RS-Indore
  - PI – Dr. Sai Prasad
  - Co-PI -Dr. J.B. Singh, Ms. Divya Ambati & Mr. Prakasha T.L.
- ix. Component-9: SKUAST, Kashmir
  - PI – Dr. R.R. Mir
  - Co-PI - Dr. M.K. Khan
- x. Component-10: ANDUAT, Ayodhya
  - PI – Dr. S.P. Singh
  - Co-PI - Dr. Subhash Chandra
- xi. Component-11: BISA, Samastipur
  - PI – Dr. Uttam Kumar
  - Co-PI - Dr. Arun Kumar Joshi
- C. Sub Project-3:Evaluation of wheat germplasm for abiotic stresses: Dr. GyanendraPratap Singh (Coordinator), Director, IIWBR, Karnal. There are eleven (11) components in this sub-project:
  - i. Component-1: IIWBR, Karnal
    - PI – Dr. SK Singh
    - Co-PI - Dr. SindhuSareen, Dr. Arun Gupta, Dr. Charan Singh, Dr. Vikas Gupta & Dr. Sonia Sheoran
  - ii. Component-2: NBPGR, New Delhi
    - PI –Dr. JyotiKumari
    - Co-PI - Dr. M.C. Yadav, Dr. Sundeep Kumar, Dr. Ruchi Bansal &Dr. Sherry R. Jacob
  - iii. Component-3: Punjab Agricultural University, Ludhiana.
    - PI –Dr. Achla Sharma
    - Co-PI–Dr. SatiinderKaur, Dr. V.S. Sohu, Dr. Puja Srivastava&Dr. Gurvinder Singh Mavi
  - iv. Component-4: MPKV, Rahuri
    - PI – Dr. Pawan L. Kulwal
    - Co-PI- Dr. S. S. Dodake
  - v. Component-5: SKAUST, Jammu
    - PI –Dr. Ravinder Singh
    - Co-PI - Dr. Bikram Singh & Dr. Anjani Kumar Singh
  - vi. Component-6: CSSRI, Karnal
    - PI- Dr. Arvind Kumar

*Aravind*

- vii. Component-7: IARI, New Delhi (Trait: Nutrient use efficiency)
- PI - Dr. Renu Pandey
  - Co-PI - Dr. Lekshmy S
- viii. Component-8: IARI, New Delhi (Trait: Salinity tolerance)
- PI - Dr. Lekshmy
  - Co-PI - Dr. Renu Pandey
- ix. Component-9: IARI, Indore
- PI - Dr. Sai Prasad
  - Co-PI - Dr. J.B. Singh, Ms. Divya Ambati & Mr. Prakasha T.L.
- x. Component-10: ARI, Pune
- PI - Dr. Yashavantha Kumar K.J.
  - Co-PI - Dr. Sudhir
- xi. Component-11: BISA, Ludhiana
- PI - Dr. Uttam Kumar
  - Co-PI - Dr. A.K. Joshi & Dr. Pradeep Bhati

D. Sub Project-4: Evaluation of wheat germplasm for quality traits: Dr. Gyanendra Pratap Singh (Coordinator), Director, IIWBR, Karnal. There are five (05) components in this sub-project:

- i. Component-1: IARI, New Delhi
- PI - Dr. Anju Mahendru
  - Co-PI - Dr. Neelu Jain
- ii. Component-2: IIWBR, Karnal
- PI - Dr. Seva Ram
  - Co-PI - Dr. B.S. Tyagi, Dr. Gopal Reddy & Dr. O.P. Gupta
- iii. Component-3: NBPGR, New Delhi
- PI - Dr. Sundeep Kumar
  - Co-PI - Dr. Rakesh Bhardwaj, Dr. Sandeep Kumar & Mr. Nand Lal Meena
- iv. Component-4: NABI, Mohali
- PI - Dr. Monika Garg
  - Co-PI - Dr. Koushik Majumdar
- v. Component-5: CCS University, Meerut
- PI - Dr. Shailendra Sharma
  - Co-PI - Dr. S.S. Gaurav & Dr. P.K. Sharma

E. Sub Project-5: Capacity building in the area of genomic selection and high throughput phenotyping and its integration in national breeding programs: NBPGR, New Delhi (Coordinating institute). There are two (02) components in this sub-project:

- i. Component-1: NBPGR, New Delhi (Coordinating institute)
- PI - Dr. Sundeep Kumar
  - Co-PI - Dr. Amit Kumar Singh & Dr. M.C. Yadav
- ii. Component-2: BISA, Ludhiana
- PI - Dr. Uttam Kumar
  - Co-PI - Dr. A.K. Joshi & Dr. P.K. Bhati

F. Sub Project-6: Coordination Unit (NBPGR, New Delhi): Co-ordinator: Dr. Kuldeep Singh.

- i. Component-1: National Bureau of Plant Genetic Resources, New Delhi
- PI - Dr. Sundeep Kumar
  - Co-PI - Dr. Amit Kumar Singh

**2.5 Overall Objectives of the Network project:**

- Agro-morphological characterization of wheat germplasm including landraces and germplasm available with Indian researchers and National GeneBank
- Genotyping of the selected wheat germplasm set using high density SNP array to understand the extent and pattern of genome level diversity in the indigenous collection and identification of marker based core set
- Whole genome re-sequencing of landraces and elite lines for the large scale discovery of the sequence variants, gene copy number variations and genome level selection pattern
- Multi-location evaluation of unique and iterative core sets for various biotic stresses including rusts, spot blotch, karnal bunt, powdery mildew and Fusarium head blight
- Multi-location evaluation of unique and iterative core sets for various abiotic stresses including drought, heat and salt tolerance
- Multi-location evaluation of unique and iterative core sets for various grain and end use quality traits
- GWAS for identification of genes/QTLs conferring resistance against selected biotic and abiotic stresses, nutrient use efficiency and key quality traits
- Capacity building in the area of genomic selection and development of genomic selection models for integration in national breeding programs

**2.6 Sub-Project/component and institutional objectives:****A. Sub Project – 1:****Overall objectives:**

- Acquiring of wheat germplasm from other institutes/sources.
- Agro-morphological characterization of initial set for key descriptors for generating genomic resources.
- Genotyping of initial set of wheat germplasm using high density SNP array for identification of unique germplasm.
- Development of 'Iterative core' set from initial set.
- Genome wide association analysis for the identification of QTLs/genes for biotic, abiotic, quality and yield traits.
- Validation of identified genomic regions in germplasm lines/biparental populations.
- Development of high density gene based SNP array using novel SNPs discovered using exome sequencing, pan genome sequencing and markers identified in GWAS.

**i. Component-1: NBPGR, New Delhi**

- Acquiring of wheat germplasm from other institutes/sources
- Agro-morphological characterization of initial set for key descriptors for generating genomic resources
- Genotyping of initial set of wheat germplasm using high density SNP array for identification of unique germplasm
- Development of 'Iterative core' set from initial set
- Genome wide association analysis for the identification of QTLs/genes for biotic, abiotic, quality and yield traits
- Validation of identified genomic regions in germplasm lines/biparental populations
- Development of high density gene based SNP array using novel SNPs discovered using exome sequencing, pan genome sequencing and markers identified in GWAS

**ii. Component-2: IARI, New Delhi**

- Evaluation of selected wheat germplasm lines for yield and its component traits
- Validation of identified germplasm lines for yield and yield component traits over the years
- Genome wide association analysis for the identification of QTLs/genes for yield and its component traits

**iii. Component-3: PAU, Ludhiana**

- Agro-morphological characterization of initial set for key descriptors for generating genomic resources
- Evaluation of selected wheat germplasm lines for yield and its component traits
- Genome wide association analysis for the identification of QTLs/genes for yield and its component traits
- Validation of identified genomic regions in germplasm lines/ biparental populations

**iv. Component-4: NIPGR, New Delhi**

- Genome resequencing of ~50 wheat germplasm lines/landraces to identify novel SNPs/ indels selection pattern at the whole genome level
- Allele mining to discover novel allelic variants for agronomically important traits using exome sequencing of 'Iterative core' set
- Genome wide association analysis for the identification of QTLs/genes for yield and its component traits using exome sequencing data

- v. Component-5: IASRI, New Delhi
  - Development of wheat SNP database
  - Development of genomic data analysis pipelines/tools for marker-trait-association analysis
- v. Component-6: BISA, Ludhiana
  - Evaluation of 'Unique set' of wheat germplasm lines for yield and its component traits
  - Validation of identified germplasm lines for yield and yield component traits over the years
  - Genome wide association analysis for the identification of QTLs/genes for yield and its component traits
- B. Sub Project-2:
  - Overall Objectives:
    - Multi-location evaluation of available "Wheat Core Set" and "Unique sets", wild germplasm for various biotic stresses including rusts, spot blotch, Karnal bunt, powdery mildew and Fusarium head blight
    - Validation of promising donors for various biotic stresses under controlled conditions
  - i. Component-1: IARI, New Delhi
    - Evaluation of available "Wheat Core Set" and "Unique set" against prevalent pathotypes of leaf rust (77-5, 77-9) at seedling and adult plant stage under field conditions
    - Single race testing of selected resistant lines against other prevalent pathotypes
    - Validation of identified germplasm lines for rust resistance under controlled condition
    - To establish the test of allelism for leaf rust among different resistance sources
  - ii. Component-2: IARI-RS, Wellington (T.N.)
    - Evaluation of available "Wheat Core Set" and "Unique Set" against prevalent races of leaf rust and stem rust, powdery mildew and fusarium head blight under field conditions
    - Validation of identified germplasm lines for rust resistance under controlled condition
  - iii. Component-3: IIWBR RS, Shimla
    - Evaluation of available "Wheat Core Set" and "Unique Set" against prevalent races of leaf rust, stem rust and stripe rust under field conditions
    - Validation of identified germplasm lines for rust resistance under controlled condition
  - iv. Component-4: PAU, Ludhiana
    - Evaluation of available "Wheat Core Set" and "Unique Set" against prevalent races of stripe rust at seedling and adult plant stage under field conditions
    - Evaluation of 'Iterative Core' for Karnal bunt resistance
    - Evaluation of 'Iterative Core' for Fusarium head blight resistance
  - v. Component-5: BHU, Varanasi
    - Preparation of inoculum for the evaluation of 'Unique set' of germplasm lines against spot blotch
    - Evaluation of available "Wheat Core Set" and "Unique Set" against most virulent isolate of spot blotch disease
    - Validation of identified germplasm lines for spot blotch resistance over the years
  - vi. Component-6: CSKHPKV, Palampur
    - Evaluation of available "Wheat Core Set" and "Unique Set" against virulent races of powdery mildew
    - Validation of identified germplasm lines for powdery mildew resistance over the years
  - vii. Component-7: IARI, New Delhi
    - Evaluation of 'Iterative/dynamic core' for Karnal bunt, and 'Unique set' of germplasm lines for spot blotch and Fusarium head blight resistance
  - viii. Component-8: IARI, RS-Indore
    - Evaluation of available "Wheat Core Set" and "Unique Set" against prevalent races of stem rust
    - Evaluation of available "Wheat Core Set" and "Unique Set" against prevalent races of leaf rust
  - ix. Component-9: SKUAST, Kashmir
    - Evaluation of 'Iterative Core' for powdery mildew
    - Evaluation of available "Wheat Core Set" and "Unique Set" against prevalent races of stripe rust at seedling and adult plant stage
  - x. Component-10: ANDUAT, Ayodhya
    - Evaluation of 'Unique set' of germplasm lines against most virulent isolate of spot blotch disease
    - Evaluation of 'Unique set' of germplasm lines against leaf rust over the years

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- xi. Component-11: BISA, Samastipur**
- Evaluation of available "Wheat Core Set" and "Unique Set" for spot blotch resistance in replicated yield trails
  - To establish the test of allelism for spot blotch among different resistance sources
  - Evaluation of "Unique set of germplasm" for tan spot under artificial inoculated condition
  - Evaluation of selected lines varying for disease resistance level under replicated yield trials in standard plots to measure yield loss due to individual allele/gene
- C. Sub Project-3:**
- Overall Objectives:**
- Multi-location evaluation of "unique" and "iterative core sets" for various abiotic stresses including drought, heat and salt tolerance
  - Validation of promising donors for various abiotic stresses under controlled conditions
- i. Component-1: IIWBR, Karnal**
- Evaluation of "Selected lines" for heat tolerance based on 1st year trial at three location and "Iterative" core set of germplasm lines for terminal heat stress tolerance under normal and late sown conditions
  - Evaluation of "Selected lines" for drought tolerance based on 1st year trial at three location and "Iterative" core set of germplasm lines under normal and drought condition for the identification of novel sources of drought stress tolerance
- ii. Component-2: NBPGR, New Delhi**
- Evaluation of "Unique set" for the identification of novel sources drought stress tolerance under normal and drought stress conditions
  - Evaluation of "Selected lines" for drought tolerance based on 1<sup>st</sup> year trial at three location and "Iterative" core set of germplasm lines under normal and drought condition for the identification of novel sources of drought stress tolerance
  - Collection and maintenance of evaluation data of various abiotic stresses received from different centers
- iii. Component-3: PAU, Ludhiana**
- Evaluation of "Unique set" for the identification of novel sources drought stress tolerance under normal and drought stress conditions
  - Evaluation of "Selected lines" for drought tolerance based on 1st year trial at three location and "Iterative" core set of germplasm lines under normal and drought condition for the identification of novel sources of drought stress tolerance
- iv. Component-4: MPKV, Rahuri**
- Evaluation of "Selected lines" for heat tolerance based on 1st year trial at three location and "Iterative" core set of germplasm lines for terminal heat stress tolerance under normal and late sown conditions
- v. Component-5: SKAUST, Jammu**
- Evaluation of "Selected lines" for drought tolerance based on 1st year trial at three location and "Iterative" core set of germplasm lines under normal and drought condition for the identification of novel sources of drought stress tolerance.
- vi. Component-6: CSSRI, Karnal**
- Evaluation of "Iterative" core set of germplasm lines under normal and salinity stress condition for the identification of novel sources of salt stress tolerance
- vii. Component-7: IARI, New Delhi (Trait: Nutrient use efficiency)**
- Evaluation of "Iterative core" for identification of promising lines with high Nutrient Use Efficiency
- viii. Component-8: IARI, New Delhi (Trait: Salinity tolerance)**
- Evaluation of "Iterative core" for identification of promising lines with high salinity tolerance.
- ix. Component-9: IARI, Indore**
- Evaluation of "Selected lines" for heat tolerance based on 1st year trial at three location and "Iterative" core set of germplasm lines for the identification of novel sources of heat tolerance.
- x. Component-10: ARI, Pune**
- Evaluation of "Unique set" for the identification of novel sources drought stress tolerance under normal and drought stress conditions
  - Evaluation of "Selected lines" for drought tolerance based on 1st year trial at three location and "Iterative" core set of germplasm lines under normal and drought condition for the identification of novel sources of drought stress tolerance
- xi. Component-11: BISA, Ludhiana**
- Evaluation of "Unique set" for the identification of novel sources heat stress tolerance under replicated trials in timely and late sown conditions

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- Evaluation of 'Selected lines' for heat tolerance based on 1st year trial at three location and 'Iterative' core set of germplasm lines for the identification of novel sources of terminal heat tolerance
- Evaluation of lines in replicated trials in standard yield plots for heat tolerance in three environments

**D. Sub Project-4:**

**Overall Objectives:**

- Evaluation of 'Unique set' for zinc and iron content
- Characterization of diverse wheat lines for test weight and flour recovery
- Multilocation evaluation of 'Unique set' for above traits and identification of high and low lines stable across the environments

**i. Component-1: IARI, New Delhi**

- Evaluation of 'Unique set' of germplasm line for zinc and iron content, grain amylose content, and grain protein content
- Multilocation evaluation of 'Unique set' for above traits and identification of high and low lines stable across the environments

**ii. Component-2: IIWBR, Karnal**

- Evaluation of 'Unique set' for zinc and iron content
- Characterization of diverse wheat lines for test weight and flour recovery
- Multilocation evaluation of 'Unique set' for above traits and identification of high and low lines stable across the environments

**iii. Component-3: NBPGR, New Delhi**

- Evaluation of 'Unique set' for zinc, iron and grain protein content
- Evaluation of 'Unique set' for grain amylose content

**iv. Component-4: NABI, Mohali**

- Screening of 'Unique set' for Zn & Fe content and 'Grain Protein Content'
- Multilocation evaluation of 'Iterative core set' for fructans and identification of high and low lines stable across the environments

**v. Component-5: CCS University, Meerut**

- Screening of 'Iterative core' for grain protein content
- Screening of 'Iterative core set' for fructan content and identification of related genetic loci in wheat with preferred nutritional and biochemical profiles and development of reference set.

**E. Sub Project-5:**

**Overall Objectives:**

- Screening of 'Iterative core' for grain protein content
- Screening of 'Iterative core set' for fructan content and identification of related genetic loci in wheat

**i. Component-1: NBPGR, New Delhi (Coordinating institute)**

- Provide genotyping and phenotyping data of 'training population' and 'test population' to be used in prediction models
- Arranging 2-3 months training to six persons in the area of 'Genomic selection' in the institutes working on 'Genomic Selection' in abroad

**ii. Component-2: BISA, Ludhiana**

- Phenotype candidate wheat varieties for yield and agronomic performance under heat stress
- Management and curation of phenotypic data and submit to IASRI
- Selection of candidate varieties/lines with high yield and abiotic stress tolerance
- Development and testing of genomic selection models using elite exotic and Indian germplasm in Indian conditions and cross validation.

**F. Sub Project-6:**

**Overall Objectives:**

- To manage and monitor overall programme.
- Timely disbursement of funds through development of research contracts and financial reporting to DBT.
- Development of monitoring strategy establish the program advisory committee (PAC) and undertake periodic meeting of the PAC.
- To engage need based international consultant to guide and support the project.
- To undertake specific capacity building exercise for the researchers of the project in relevant areas
- To prepare operational reports for DBT
- To organize scientific symposium / conference.

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Mohali													49.1692
CCSU, Meerut	4.65	21.0192	18.00	2.00	2.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	
<b>Sub-Project 5</b>													
NBPGR	0.00	0.00	0.00	4.00	2.00	0.00	1.00	0.00	41.00	0.00	0.00	0.00	48.00
BISA, Ludhiana	12.00	10.0224	8.00	4.00	7.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	42.5224
<b>Sub-Project 6</b>													
NBPGR	13.50	53.1216	0.00	15.00	5.00	0.00	2.50	0.00	0.00	15.00	23.00	23.00	127.1216
Total	330.596	1340.0546	434.244	91.25	88.25	521.00	72.85	974.00	41.00	15.00	23.00	23.00	3931.2446

5. Consolidated head wise budgetary details for period of five years: (Rs. in lakhs)

Head	Year I	Year II	Year III	Year IV	Year V	Total
Non-recurring Equipment's*	330.596	0.0	0.0	0.0	0.0	330.596
Recurring Manpower**	147.8634	298.7418	308.6632	315.9682	268.818	1340.0546
Consumable	30.00	115.00	112.00	130.00	47.244	434.244
Outsourcing Services	684.00	190.00	100.00	0.0	0.0	974.00
Travel	8.75	21.75	21.75	21.75	17.75	91.75
Field & Farm	116.50	122.5	151.5	107	23.5	521.00
Training	0.00	20.50	20.50	0.00	0.00	41.00
Review Meeting	3.00	3.00	3.00	3.00	3.00	15.00
Publication Charges	3.00	5.00	5.00	5.00	5.00	23.00
Contingency	8.50	21.5	21.00	21.00	16.25	88.25
Overhead	6.70	17.65	17.95	17.95	12.60	72.85
Total	1338.9094	815.6418	761.3632	621.6682	394.162	3931.7446

6. Head of Account:  
i. The expenditure for recurring is debatable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

- ii. The expenditure for Non-recurring is debatable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

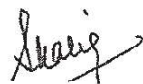
*Shree*

7. Terms & Conditions:

- i. In case the whole or a part of the amount of the grant in aid is being refunded, an interest at the rate of ten percent per annum thereon shall be recovered.
- ii. The Non-recurring amount should be utilized within 18 months from the date of Sanction Order.
- iii. No Utilization Certificate is pending with the implementing Institute. All the Utilization Certificates due for rendition have been received and accepted by the head of Division/Competent Authority.
- iv. A 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.
- v. 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 Utilization 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.
- vi. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions of Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organization is called upon to do so.
- vii. 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. SR/S9/Z-08/2018 dated 30.01.2019. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET. PI can also recruit project staff as per approved institutional/organizational norms or as per DST O.M. SR/S9/Z-05/2019 dated 21.08.2019.

8. Other Terms & Conditions:

- i. The Director, NBPGR, New Delhi shall 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.
  - ii. The Director, NBPGR, New Delhi shall be responsible for upload consolidated GFR - 19 (UC) in PFMS.
  - iii. Grant of all participating Institutes/ Universities shall be released to NBPGR, New Delhi. It shall be the responsibility of NBPGR, New Delhi to debit grant to the respective participating components as per grants sanctioned by the DBT within fifteen days.
  - iv. NBPGR, New Delhi shall be responsible for overall account management and timely releases & submission of annual reports.
  - v. All partnering institution shall enter in to a MoA and sign MTAs. However, institutions are required to send MoA as per DBT format within 30 days of order as detailed para 8 (iv).
  - vi. PMU shall function under coordinator of the project and DBT for monitoring /evaluation of research progress and implementation of the project.
  - vii. 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/3963 /2019-20 dated 29.02.2020.
10. This sanction order has been noted at serial no. 216 in the Register of Grants.

  
(Dr. Sanjay Kalia)  
Scientist 'E'


To,

The Pay & Accounts Officer,  
Ministry of Science & Technology  
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 Director, NBPGR, New Delhi.
3. Dr. Sundeep Kumar, NBPGR, New Delhi.

4. Dr. Amit K. Singh, NBPGR, New Delhi
5. Dr. Kiran B. Gaikwad, IARI, New Delhi.
6. Dr. V. S. Sohu, PAU, Ludhiana
7. Dr. Manoj Prasad, NIPGR, New Delhi
8. Dr. Dinesh Kumar, IASRI, New Delhi
9. Dr. Uttam Kumar, BISA, Samastipur/Ludhiana
10. Dr. Vinod, IARI, New Delhi
11. Dr. S. K. Jha, IARI, New Delhi
12. Dr. V. K. Vikas, IARI-RS, Wellington (T.N.)
13. Dr. S.C. Bhardwaj, IIWBR-RS, Shimla
14. Dr. Satinder Kaur, PAU, Ludhiana
15. Dr. V. K. Mishra, BHU, Varanasi
16. Dr. H. K. Chaudhary, CSKHPKV, Palampur
17. Dr. M. S. Saharan, IARI, New Delhi
18. Dr. S. V. Sai Prasad, IARI, RS-Indore
19. Dr. R. R. Mir, SKUAST, Kashmir
20. Dr. S. P. Singh, ANDUAT, Ayodhya
21. Dr. S. K. Singh, IIWBR, Karnal
22. Dr. Jyoti Kumari, NBPGR, New Delhi
23. Dr. Achla Sharma, PAU, Ludhiana
24. Dr. Pawan L. Kulwal, MPKV, Rahuri
25. Dr. Ravinder Singh, SKAUST, Jammu
26. Dr. Arvind Kumar, CSSRI, Karnal
27. Dr. Renu Pandey, IARI, New Delhi
28. Dr. Lekshmy, IARI, New Delhi
29. Dr. Yashavantha Kumar K. L., ARI, Pune
30. Dr. Anju Mahendru, IARI, New Delhi
31. Dr. Sewa Ram, IIWBR, Karnal
32. Dr. Monika Garg, NABI, Mohali
33. Dr. Shailendra Sharma, CCS Univeristy, Meerut
34. Sanction Folder.
35. File Copy.

  
(Dr. Sanjay Kalia)  
Scientist 'E'

FILE NO. CRG/2019/000321

## SCIENCE &amp; ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science &amp; Technology, Government of India)

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 16-Mar-2020

## ORDER

Subject: Financial Sanction of the research project titled "Effects of Illuminated Night Environment on Metabolism and Reproduction in Continuously Breeding Diurnal Vertebrate: A Study on Zebra Finches" under the guidance of Prof. SANJAY KUMAR BHARDWAJ, DEPARTMENT OF ZOOLOGY, Choudhary Charan Singh University, University main rd, Ramgarhi, Meerut, Uttar Pradesh-250005 and by Dr. Vinod Kumar, Professor, Zoology, University Of Delhi, North Campus - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 4862720/- (Rs. Forty Eight Lakh Sixty Two Thousand Seven Hundred and Twenty Only) with break-up of Rs. 0/- under Capital (Non-recurring) head and Rs. 4862720/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 4862720/- has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment	
A'	Total (Non-Recurring)	0
B	Recurring Items	0
1	Recurring - I : (Manpower)	1962720
	Recurring - II : ( Consumables, Travel, Contingencies, Other Cost)	2400000
	Recurring - III : Scientific Social Responsibility	60000
2	Recurring - IV : (Overhead Charges)	440000
B'	Total (Recurring)	4862720
C	Total cost of the project (A' + B')	4862720

2. Sanction of the SERB is also accorded to the payment of Rs. 1670000/- (Rupees Sixteen Lakh Seventy Thousand only) under 'Grants-in-aid General' to Vice Chancellor, Choudhary Charan Singh University, University Main Rd, Ramgarhi being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Core Research Grant. (Organismal and Evolutionary Biology(Animal Sciences))

4. The Sanction has been issued to Choudhary Charan Singh University, University Main Rd, Ramgarhi with the approval of the competent authority under delegated powers on 12 March, 2020 and vide Diary No. SERB/F/10971/2019-2020 dated 13 March, 2020

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

11. The release amount of Rs. 1670000/- (Rupees Sixteen Lakh Seventy Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of <sup>Page 18</sup> transaction as per their Bank details given below:

PFMS Unique Code	CCSU
Account Name	C.C.S. University Grant Account
Account Number	8580101004528
Bank Name & Branch	Canara Bank Canara Bank Meerut University Road M-178-2 Shri Nathji Complex Meerut
IFSC/RTGS Code	CNRB0008580
Email id of A/C Holder	registrar@ccsuniversity.ac.in
Email id of PI	drskumar7@yahoo.com

12. The institute will furnish to the SERB, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

13. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

14. The project File no. CRG/2019/000321 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

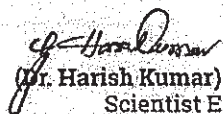
15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project.

16. As this is the first grant being released for the project, no previous U/C is required.

17. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi,

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

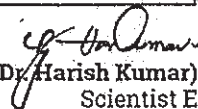
19. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board.

  
 (Dr. Harish Kumar)  
 Scientist E  
 ms\_as@serbonline.in

To,  
 Under Secretary  
 SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002.
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Prof. SANJAY KUMAR BHARDWAJ DEPARTMENT OF ZOOLOGY Choudhary Charan Singh University, University main rd, Ramgarhi, Meerut, Uttar pradesh-250005 Email: drskumar7@yahoo.com Mobile: 919412209675  Dr. Vinod Kumar Zoology University Of Delhi, North Campus (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	Vice Chancellor, Choudhary Charan Singh University, University Main Rd, Ramgarhi  (Receipt of Grant may be intimated by name to the undersigned)

  
 (Dr. Harish Kumar)  
 Scientist E

प्रेषक,

योगेन्द्र दत्त त्रिपाठी,

विशेष सचिव,

उ०प्र० शासना

सेवा में,

कुलसचिव/वित्त अधिकारी

चौधरी चरण सिंह विश्वविद्यालय, मेरठ

उच्च शिक्षा अनुभाग-4

विषय- वित्तीय वर्ष 2020-21 में "सेंटर ऑफ एक्सीलेंस की स्थापना" हेतु अनुदान की स्वीकृति।

महोदय,

उपर्युक्त विषय के संबंध में मुझे यह कहने का निदेश हुआ है कि वित्तीय वर्ष 2020-21 में प्रदेश के विभिन्न राज्य विश्वविद्यालयों से प्राप्त सेंटर ऑफ एक्सीलेंस योजना के प्रस्तावों का परीक्षण एक्सपर्ट पैनल से कराया गया। अपर सचिव, उ०प्र० राज्य उच्च शिक्षा परिषद, लखनऊ के पत्र संख्या-08/रा०उ०शि०प०/4/10 II, दिनांक 08.01.2021 द्वारा एक्सपर्ट पैनल की संस्तुतियां उपलब्ध करायी गयी। उ०प्र० राज्य उच्च शिक्षा परिषद उपलब्ध करायी गयी एक्सपर्ट पैनल की संस्तुतियों पर सम्यक विचारोपरांत चौधरी चरण सिंह विश्वविद्यालय, मेरठ को सेंटर ऑफ एक्सीलेंस योजना के अंतर्गत निम्नलिखित विवरण के अनुसार रू० 4.50 लाख (रूपये चार लाख पचास हजार मात्र) का अनुदान/ वित्तीय स्वीकृति प्रदान की जाती है:-

क्र० सं०	विभाग का नाम	समन्वयक का नाम	शीर्षक	अनुमोदित अनुदान	स्वीकृत धनराशि
1	Department of Agriculture	Prof. Shailendra Singh Gaurav	Center of Excellence on Training & Skill Development on Food Science and Technology	4.50 लाख	4.50 लाख

(रूपये चार लाख पचास हजार मात्र)

- 2- सेंटर ऑफ एक्सीलेंस योजना के अंतर्गत स्वीकृत की जा रही धनराशि का व्यय शोध सहायक/केमिकल, ग्लासवेयर आदि/यात्रा व्यय एवं डाटा कलेक्शन आदि/आकस्मिक व्यय पर किया जाएगा। प्रोजेक्ट प्रारम्भ करने के पूर्व कुल स्वीकृत धनराशि का उक्त मदों में मदवार फांट का अनुमोदन विश्वविद्यालय के कुलपति से प्राप्त कर लिया जाएगा।
- 3- प्रश्नगत योजना से संबंधित कार्यों हेतु किसी भी दशा में कोई भी नियुक्ति नहीं की जाएगी तथा कोई डिप्लोमा/प्रशिक्षण कोर्स संचालित नहीं किये जाएंगे।
- 4- योजनांतर्गत पूर्व में स्वीकृत धनराशि का मदवार उपयोगिता प्रमाण पत्र व प्रगति आख्या वित्तीय वर्षवार शासन को संकलित रूप में उपलब्ध कराया जायेगा।
- 5- सेंटर ऑफ एक्सीलेंस योजनांतर्गत राज्य सरकार द्वारा समय-समय पर निर्मित दिशा-निर्देश प्रभावी रहेंगे। विश्वविद्यालय स्तर पर योजना के दिशा-निर्देशों के अनुसार कार्यक्रमों की मानीटरिंग की जायेगी तथा शासन को अवगत कराया जायेगा। योजनांतर्गत जो भी बुक्स/प्रकाशन किये जाएँगे उसमें योजना का नाम एवं उच्च शिक्षा विभाग, उत्तर प्रदेश शासन का उल्लेख अवश्य किया जायेगा।
- 6- एक्सपर्ट पैनल द्वारा परियोजना प्रस्ताव का किये गये परीक्षण/मूल्यांकन की प्रगति संलग्न है।
- 7- धनराशि के व्यय के सम्बन्ध में वित्तीय नियमों का पालन सुनिश्चित किया जायेगा। योजनांतर्गत सामग्री क्रय हेतु सुसंगत वित्तीय नियमों का पालन किया जायेगा। सामग्री के अनुरक्षण आदि पर होने वाला व्यय विश्वविद्यालय

द्वारा वहन किया जायेगा। इस प्रस्ताव पर यदि और धनराशि की आवश्यकता होती है तो विश्वविद्यालय द्वारा का वहन अपने स्रोतों से किया जायेगा।

8- व्यय प्रबन्धन एवं शासकीय व्यय में मितव्ययिता के सम्बन्ध में वित्त विभाग द्वारा समय-समय पर निर्गत आदेशों, सुसंगत वित्तीय नियमों एवं स्टोर परचेज रूल्स आदि का अनुपालन सुनिश्चित किया जायेगा।

9- उक्त स्वीकृति इस प्रतिबन्ध के अधीन होगी कि अवमुक्त की जा रही धनराशि का कोषागार से आहरण तत्काल आवश्यकता होने पर किया जायेगा। स्वीकृत धनराशि का उपयोगिता प्रमाण-पत्र शासन को यथा समय उपलब्ध कराया जायेगा। यदि वित्तीय वर्ष की समाप्ति पर स्वीकृत की जा रही धनराशि का कोई अंश शेष बचता है तो वित्तीय वर्ष के अंतिम माह मार्च में शासन को समर्पित किया जायेगा।

10- इस अनुदान को उपयोग अनुमोदित मदों पर ही किया जायेगा। अस्थई रूप से भी इसका कोई भाग अन्य अनुमोदित मदों, अवकाश नकदीकरण, चिकित्सा भत्ता, सवारी भत्ता व मानदेय कार्यों के लिए तथा दैनिक वेतन भोगी कर्मचारियों के वेतन पर व्यय नहीं किया जायेगा। उक्त धनराशि का व्यावर्तन किसी भी दशा में अनुमन्य नहीं होगा। यह भी स्पष्ट किया जाता है कि इस धनराशि में उन्ही मदों में उतनी ही धनराशियाँ व्यय हेतु अनुमन्य होगी, जो शासनादेश संख्या-1075/70-4-99/46(21)/99 दिनांक 29 अप्रैल, 2000 की संलग्न तालिका में प्रत्येक मद हेतु अनुमन्य की गई है। इसका उल्लंघन करने पर विश्वविद्यालय अधिनियम, 1973 की धारा 55ए के अनुसार कार्यवाही की जायेगी।

11- इस अनुदान पर वित्तीय नियम संग्रह खण्ड-05 भाग-01 के नियम 16ए में निहित अनुदान के नियम लागू होंगे।

12- इस अनुदान पर राज्य विश्वविद्यालयों को ब्लाक ग्राण्ट देने की व्यवस्था विषयक शासनादेश संख्या-1371/15(15)/95-46(55)/94 दिनांक 04 मई, 1995 द्वारा निर्धारित नियम व शर्तें लागू होंगी। तदनुसार ही विश्वविद्यालय द्वारा व्यय किये जायेंगे और व्यय के विवरण तत्काल शासन को उपलब्ध कराये जायेंगे।

13- उक्त पर होने वाले व्यय चालू वित्तीय वर्ष 2020-21 के आय-व्ययक के अनुदान संख्या-73 के अधीन लेखा शीर्षक "2202-सामान्य शिक्षा-03-विश्वविद्यालय तथा उच्चतर शिक्षा-102-विश्वविद्यालयों को सहायता-49-सेंटर आफ एक्सीलेंस की स्थापना-20-सहायता अनुदान-सामान्य (गैर वेतन)" के नामे डाला जायेगा।

14- यह आदेश वित्त (आय-व्ययक) अनुभाग-1 के कार्यालय ज्ञाप संख्या-1/2020/बी-1-149/दस-2020-231/2020, दिनांक 24 मार्च, 2020 में प्रतिनिधानित अधिकारों के अन्तर्गत निर्गत किए जा रहे हैं।


भवदीय,

(योगेन्द्र दत्त त्रिपाठी)

विशेष सचिव।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:-

1. महालेखाकार (लेखा परीक्षा-1), उत्तर प्रदेश, प्रयागराज।
2. निदेशक, उच्च शिक्षा, उत्तर प्रदेश, प्रयागराज।
3. निदेशक, स्थानीय निधि लेखा परीक्षा विभाग, उत्तर प्रदेश, प्रयागराज।
4. संबंधित कोषाधिकारी।
5. संबंधित, क्षेत्रीय उच्च शिक्षा अधिकारी।
6. अपर सचिव, उ0प्र0 राज्य उच्च शिक्षा परिषद, छठा तल इन्दिरा भवन लखनऊ को वेबसाईट पर अपलोड करने हेतु।
7. वित्त (व्यय-नियंत्रण) अनुभाग-11
8. अनुभाग अधिकारी (लेखा), उच्च शिक्षा विभाग को इस निर्देश के साथ प्रेषित कि स्वीकृत धनराशि को तत्काल आनलाइन Grid (Budget) Allotment कर उसकी हार्ड कापी उच्च शिक्षा अनुभाग-4 को उपलब्ध कराने का कष्ट करें।
9. गार्ड फाइल।

आज्ञा से,  
  
( सर्वेश कुमार सिंह )  
उप सचिव।





Date: Sept 15, 2020

Dear Dr. Ritu Batra,

I am delighted to inform you that you have been selected for the Post of **Research Associate-I** funded by the Department of Biotechnology, GOI, New Delhi, to work with **Prof. Shailendra Sharma, Department of Genetics & Plant Breeding, Ch. Charan Singh University, Meerut – 250004.**

You are advised to indicate your acceptance, or otherwise, of this offer by September 25, 2020, via an email message **with a copy to your proposed mentor.**

The terms and conditions of the fellowship are as follows. For additional terms and conditions, see Annexure I.

1. The DBT-RA fellowship starts from **October 1, 2020.** To avail the Research Associateship, you should report for duty by **October 1, 2020.**

2. You will be designated as **DBT-Research Associate-I** with a stipend of **Rs.47,000/- p.m.** and a contingency grant of **Rs.50,000/- per year.** The contingency grant should be utilized with approval of your mentor. If an accommodation is not provided by your institution, you will be entitled to HRA as per GOI rules. The fellowship is awarded initially for a period of 2 years, with annual renewal based on the assessment of research progress.

3. Your stipend and contingency grant will be released to the host institute/university after you report for duty and on the receipt of joining documents (email copy) at the DBT-RA Program Office at IISc, Bangalore. You should send your joining report with following documents:

- A formal letter mentioning your date of joining, signed by your mentor & HOD.
- Filled Data Sheet (refer attachment)
- Certificate of undertaking (**should be on the letter head of host institute**) (refer attachment)
- Bank account details of your Institute / University (refer attachment)

All the above documents (a single pdf copy) should be emailed to us on or before **October 15, 2020.**

Kindly note that the support beyond 31st March, 2021 is subject to appraisal and approval of DBT-RA Program by Competent Authority.

Warm wishes,

Sincerely,

Prof. Arun Kumar, Ph.D.

Prof. Arun Kumar, Ph.D.  
National Program Coordinator  
DBT-RA Program in Biotechnology & Life Sciences  
NEW Biological Sciences Building  
Indian Institute of Science, Bangalore -560012

No. BT/PR21024/AGIII/103/925/2016  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Date: 26.10.2020

**RELEASE ORDER**

In continuation of this Department's sanction order of even number dated 19.03.2018, sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. 1490803.00 (Rupees Fourteen Lakhs Ninety Thousand Eight Hundred and Three Only) being the third year release for the project entitled "Pyramiding of Rust Resistance Genes into High Grain Quality Wheat Lines Developed Through Marker-assisted Selection", being implemented by:

Prof. Pardeep Kumar Sharma, Department of Genetics & Plant Breeding, Ch. Charan Singh University, Meerut, Meerut - 250004, Uttar Pradesh.

The detailed break-up is as given below:

SN	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
I	Chaudhary Charan Singh University Meerut	805600.00	498987.00	53203.00	41427.00	0.00	91586.00	1490803.00

2. The amount of Rs. 1490803.00 /-(Rupees Fourteen Lakhs Ninety Thousand Eight Hundred and Three Only) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

The Registrar, Chaudhary Charan Singh University, Meerut - 250004, Uttar Pradesh

Bank Name : Canara Bank  
Branch Name : Canara Bank, University Road , Meerut  
A/c No. : 8580101004528  
IFSC Code : CNRB0008580  
MICR Code : 250015004

3. The expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2020-2021
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

*Signature*

No. BT/PR15781/AGIII/103/910/2015  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Date: 26.11.2020

**RELEASE ORDER**

In continuation of this Department's sanction order of even number dated 26<sup>th</sup> March, 2018 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. 1907502.00 (Rupees Nineteen Lakhs Seven Thousand Five Hundred and Two Only) being the third year release for the project entitled "Marker-Assisted Breeding and Mapping of QTLs for Drought Tolerance in Wheat", being implemented by

1. Dr. Gyanendra Singh, Indian Institute of Wheat and Barley Resaerch, Karnal - 132001, Haryana.
2. Dr. Pradeep Kumar Sharma, Chaudhary Charan Singh University, Meerut - 250004, Uttar Pradesh.

The detailed break-up is as given below:

SNo	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
1	IWBR, Karnal	919200.00	*54529.00	39640.00	50000.00	0.00	0.00	1063369.00
2	CCSU, Meerut	398000.00	299597.00	21774.00	49901.00	0.00	74861.00	844133.00
*Rs. 4.40473 lakhs balance under NR head is re-appropriated into consumable head.								

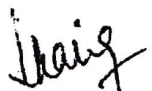
2. The amount of Rs. 1907502.00 /-(Rupees Nineteen Lakhs Seven Thousand Five Hundred and Two Only) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

1. Rs.1063369.00/- (Rupees Ten Lakhs Sixty Three Thousand Three Hundred and Sixty Nine Only) to The Director, Indian Institute of Wheat and Barley Resaerch, Karnal - 132002, Haryana

Bank Name : State Bank of India  
Branch Name : Main Branch, The Mall Road  
A/c No. : 10868324195  
IFSC Code : SBIN0000665  
MICR Code : 132002102

2. Rs.844133.00/- (Rupees Eight Lakhs Fourty Four Thousand One Hundred and Thirty Three Only) to The Registrar, Chaudhary Charan Singh University, Meerut - 250004, Uttar Pradesh

Bank Name : Canara Bank  
Branch Name : Shrinath Ji Complex  
A/c No. : 8580101004528  
IFSC Code : CNRB0008580  
MICR Code : 250015004

  
डॉ. संजय काना / Dr. Sanjay Kana  
विभागाध्यक्ष / Scientist 'E'  
राष्ट्रीय प्रौद्योगिकी विभाग / Dept. of Biotechnology  
विज्ञान और प्रौद्योगिकी, भारत सरकार / Min. Science & Tech.  
नया दिल्ली, भारत / Govt. of India, N. Delhi



National Agricultural Science Fund  
**Indian Council of Agricultural Research**  
Room No. 707, KAB -I, Pusa, New Delhi - 110012

F.No. NASF/ABP-6006/2016-17

Dated: 28.02.2020

To,

The Vice-chancellor,  
Ch.Charan Singh University,  
Meerut, 250004, Uttar Pradesh

**Subject:** Revised Sanction letter in view of the enhancement of emoluments of the contractual staff and extension of the project upto December 2020 with an additional budget for the project entitled, "Epigenetic Regulation of Host-Pathogen Genetics in Leaf Rust Resistance of Wheat" under the National Agricultural Science Fund (NASF).

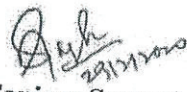
**Reference:** NASF letter no. F.No. NASF/ABP-6006/2016-17 dated 27.03.2018.

Sir,

In partial modification of our sanction letter dated 27.03.2018 for the award of the above-cited project, I am enclosing the revised sanction as *Annexure I-III* in view of sanction of additional budget of ₹ 3.07230 lakhs, due to the enhancement of the emoluments of the contractual staff vide Council's letter OM F. No. Ag. Edn. 6/27/2014-HRD dated 30.7.2019, under recurring cost under contractual staff head. The revised emoluments for the contractual staff are effective from 01.01.2019. However the effective date for the revised House Rent Allowance (HRA) is 30.7.2019.

Further, The EC approved the extension of Lead Centre- CCSU, Meerut and Cooperating Centres -IARI, Delhi and IIWBR, Shimla for one year (Jan.2020- Dec. 2020 with an additional budget of Rs.43.69360 lakh in its 39<sup>th</sup> meeting held on 18.01.2020. This additional budget should be strictly spent within this financial year and it will not be revalidated or fresh sanctioned in next financial year in any case. The revised budget of the project is now Rs. 332.8183 lakhs instead of the original amount of Rs. 286.05240 lakhs. All other terms and conditions as communicated earlier remains the same.

Yours faithfully,

  
(Sanjeev Saxena)  
ADG (NASF)

Copy for information and necessary action to:

- (i) PI/CCPIs of the project.
- (ii) F&AO, NASF Secretariat

FILE NO ECR/2016/001774  
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)  
(A statutory body of the Department of Science & Technology, Government of India)

19-20  
5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 26-Mar-2021

**ORDER**

Subject Financial Sanction of the research project titled "Identification of Quantitative Trait Loci and Underlying Candidate Genes for Seed Dormancy and Pre-harvest Sprouting Tolerance in Common Wheat" under the guidance of Dr. Sachin Kumar, GENETICS AND PLANT BREEDING, Choudhary Charan Singh University, University main rd, Ramgarhi, Meerut, Uttar Pradesh-250005 and by Dr. Harindra Singh Balyan, Emeritus Professor, Genetics And Plant Breeding, Choudhary Charan Singh University - Release of final installment.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 5060747/- (Rs. Fifty Lakh Sixty Thousand Seven Hundred and Forty Seven Only) with break-up of Rs. 1435565/- under Capital (Non-recurring) head and Rs. 3625182/- under General (Recurring) head for a duration of 36 months.

In continuation of the sanction order of even no dated "22 March, 2017". The sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a revised cost as defined below.

The following budget may be considered for Choudhary Charan Singh University, University Main Rd, Ramgarhi

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Falling Number determination apparatus {Other Cost: INR 35000} -> Power Supply -> High-through agarose gel electrophoresis -> Refrigerated Centrifuge {Other Cost: INR 25000}	1435565
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>1435565</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1150561 1997833 0
2	Recurring - IV : (Overhead Charges)	476788
<b>B'</b>	<b>Total (Recurring)</b>	<b>3625182</b>
<b>C</b>	<b>Total cost of the project (A' + B')</b>	<b>5060747</b>

2. Sanction of the SERB is also accorded to the payment of Rs. 347044/- (Rupees Three Lakh Forty Seven Thousand and Forty Four only) under 'Grants-in-aid General' to Finance Officer, Choudhary Charan Singh University, University Main Rd, Ramgarhi being the last and final installment of the grant for implementation of the said research project.

3. The expenditure involved is debit to Fund for Science & Engineering Research (FSER)  
This release is being made under Early Career Research Award. (EC Life Sciences)

4. The Sanction has been issued to Choudhary Charan Singh University, University Main Rd, Ramgarhi with the approval of the competent authority under delegated powers on 25 March, 2021 and vide Diary No. SERB/F/9000/2020-2021 dated 26 March, 2021

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

7. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

8. The release amount of Rs. 347044/- (Rupees Three Lakh Forty Seven Thousand and Forty Four only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	ccsu
Account Name	M/s. C.C.S. University Grant Account
Account Number	20193822304
Bank Name & Branch	Indian Bank (Allahabad Bank) Indian Bank (Allahabad Bank), Meerut University Campus, Meerut City, Meerut 250004, Uttar Pradesh, Phone No 0121 2762529
IFSC/RTGS Code	IDIB000M690
Email id of A/C Holder	fc.ccsu@gmail.com
Email id of PI	sachinkpsingh@gmail.com

No. BT/PR30730/BIC/101/1175/2018  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floors)  
CGO Complex, Lodhi Road,  
New Delhi- 110 003

Date: 13.01.2021

**RELEASE ORDER**

In continuation of this Department's sanction order of even number dated 26.04.2019, sanction of the President is hereby accorded, under Rule18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs.1605148.00 (Rupees Sixteen Lakhs Five Thousand One Hundred and Fourty Eight only) being the second year release for the project entitled "**Deciphering Genetic and Epigenetic Regulation of Cereal Cyst Nematode (CCN) Resistance in Wheat**", being implemented by:

Dr. Shiveta Sharma, Chaudhary Charan Singh University, House No - 15, Sector - 6 Jagrati Vihar, Meerut - 250004, Uttar Pradesh.

The detailed break-up is as given below:

SN	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
1	Chaudhary Charan Singh University Meerut	645148.00	0.00	0.00	50000.00	900000.00	10000.00	1605148.00


i) An amount of Rs.16,035/-balance under NR head has been re-appropriated to manpower head.

ii) The total unspent balance with PI, upto 31.03.2020 was Rs.1,82,748/-, out of which the interest earned amount of Rs.30,543/- has been remitted by the Institute to the Consolidated Funds of India through Bharatkosh vide receipt No.3110200001181. Accordingly carry forward approval has been taken for the remaining amount.

2. The amount of Rs.1605148.00/-(Rupees Sixteen Lakhs Five Thousand One Hundred and Forty Eight only) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:

The Registrar, Chaudhary Charan Singh University, CCS University - Meerut, Meerut - 250004, Uttar Pradesh.

Bank Name : Canara Bank  
Branch Name : Meerut University Road  
A/c No. : 8580101004528  
IFSC Code : CNRB0008580  
MICR Code : 250015004

  
Dr. Suraksha S. Diwan  
बैज्ञानिक / Scientist 'E'  
आनुवंशिकी विभाग / Dept. of Cytogenetics  
आनुवंशिकी विभाग / Dept. of Cytogenetics  
आनुवंशिकी विभाग / Dept. of Cytogenetics