

间际原子館机机构 International Atomic Energy Agency Agence internationale de l'énergie atomique Международное агентство по атомной энергии Огдапівто internacional de Energia Atómica

Atoms For Peace

Wagramer Strasse 5, P.O. Box 100, A-1400 Wien, Austria Phone: (+43 1) 2600 • Fax: (+43 1) 26007 E-mail: Official.Mail@iaea.org • Internet: http://www.iaea.org

IAEA Research Contract No: 15557

Research Contract

This Research Contract is made between the International Atomic Energy Agency (herein after referred to as the "IAEA") whose address is Wagramer Strasse 5, P.O. Box 100, A-1400 Vienna, Austria and the Department of Zoology (herein after referred to as the "Contractor") whose address is Department of Zoology University of Delhi NEW DELHI 110 007 INDIA.

Whereas

the IAEA is authorized under its Statute and the decisions of its competent organs to encourage and assist research on, and the development and practical applications of atomic energy for peaceful purposes throughout the world by entering into contracts for research and development.

Whereas

the Contractor is able and willing to carry out a Research Project desired by the IAEA;

Now, therefore

the IAEA and the Contractor hereby agree as follows:

1. Scope of the Research Project

a) The Contractor shall undertake a Research Project entitled 'Evaluation of Various Bio-Characteristics of Radio-Sterilized Lepidopteran Pest, Spodoptera Litura and its Progeny to Establish the Fitness (Quality) Traits for a Critical Appraisal of "F1 Sterility Technique" for Pest Management'.

The Chief Scientific Investigator shall be Mr. Seth, Rakesh.

- b) The programme of work shall be:
- 1. Identify various bio-characterisitics (behavioural, physiological and bio-chemical) and assess the relationship with the quality of irradiated common cutworm

F.No.CPS 5- 2/2013-NFSM GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE DEPARTMENT OF AGRICULTURE & CO OPERATION CROPS DIVISION, NFSM-CELL

Krishi Bhawan, New Delhi Dated the 4th July, 2013

To

- The Vice Chancellor
 University of Agriculture Sciences
 Raichur-584102
 Karnataka
- The Vice Chancellor
 University of Delhi
 North Campus, Delhi-110007

Subject:

Administrative Approval of project on "Investigation on the Present Pigeonpea Pest complex and their Management with emphasis on Radiation Technology as an Integral Component in IPM" under NFSM-Pulses – regarding.

Sir,

I am directed to refer to joint proposal received from UAS, Raichur and University of Delhi, Delhi vide No. VC / UASR / 1033 / 2013-14 dated 15.06.2013 entitled "Investigation on the Present Pigeonpea Pest complex and their Management with emphasis on Radiation Technology as an Integral Component in IPM" for four years i.e. 2013-14 to 2016-17 with budgetary provision of Rs. 656.0 lakh.

In this context, it is to inform you that DAC will not bear any institutional/overhead charges to this project and the UAS, Raichur will be the lead centre for implementation of the Project, as proposed. The competent authority has approved the proposal for four years with budgetary provision of Rs. 656.0 lakh. However, for the year 2013-14, the project is approved with an allocation of Rs. 283.50 lakh as proposed. Yearly, component-wise approved activity is enclosed as *Annexure*.

Encl.: As stated.

Additional Commissioner (Crops)

Yours faithfully

Copy for kind information to **Dr. Rakesh Kumar Seth, Prof**essor and In-charge, Applied Entomology & Radiation Biology Unit, North Campus, Delhi-110007.

ITE/IN DBT CREST Award-/16/19/2011-12 Ministry of Science & Declinology: Department of Hiotechnology Government of India

Block No 2, 6-8th Flores CGO Complex, Ladi Rand, New Delhi - 110 003 Dated usth May. 2012

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978, towards DBT-CREST (formerly known as Biotechnology Overseas Associateship) for the year 2011-12 to Dr. Rita Singh, Associate Professor, Department of Zoology, University of Delhi. Delhi-110 007. The total amount of award money is Rs. 21, 00,000/- (Rupees Twenty one lakhs only) as per details in Para 5 below.

- Title of study: The molecular mechanism of breast cancer initiation and metastasis. 2,
- Host PI and Institution: Dr. Rexford S. Ahima, MD, PhD, Associate Professor of Medicine, 12-3, 104 Translational Research Center, 3400 Civic Center Boulevard, Bldg. 421, Perelman School of Medicine, Philadelphia, PA 19104-5160, USA.
- 4. Period of award: the period of award will be 12 months.
- Amount of award: the total amount of award money is detailed as under:

S. No.	Head	Total	Total in INR equivalent @ IUSS=Rs. 50.0/-*
a.	Fellowship @ US\$ 3000/- pm for I2 months	US\$ 36000/-	18,00,000/-*
b.	Preparatory	1,00,000/-	1,00,000/-
c.	Travel costs	2,00,000/-	2,00,000/-
Total			Rs. 21,00,000/-

*Exact amount may be calculated on the prevailing rate of US\$ on the date of release of fellowship amount to the associate.

6. Head of the account:

The expenditure involved is debitable to

Demand No.87

Department of Biotechnology

Other Scientific Research (Major Head) 3425

Others (Sub Major Head)

60 International Cooperation 60.798

International Bilateral Programme & SAC Overseas 03 International Bilateral Programme & SAC Overseas 03.00 Grants-in-aid General during the year 2012-2013 (Plan) 03.00.31

PC- 15

Prosjektnr.(NTNU):	
Prosjektnr.(underleverandør):	

Agreement

between

Norwegian University of Science and Technology org.number 974 767 880

hereinafter referred to as NTNU

and

University of Delhi

hereinafter referred to as Subcontractor

NTNU and University of Delhi are hereinafter commonly referred to as the "Parties".

R.Ch

13. Disputes

The terms in the Contract between NARC and NTNU are applicable.

14. Contact persons

NTNU's contact person: Prof Kjell J. Nilssen

University of Delhi's contact person: Prof Rina Chakrabarti

15. Signature

This Contract is signed in two copies where each of the Parties has received one

24 / 10 2013 Trondheim,

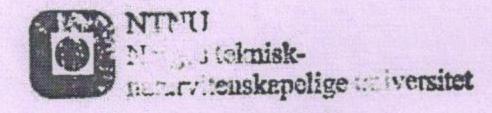
For NTNU:

For University of Dehli

Med of Department

Prof. Rina Unakrabacti Aqua Research Lab Department of Zoology University of Delhi Delhi-110 007, INDIA

Rina...Chakmalandr.....



Institutt for biologi 7491 Trondheim

INDIAN COUNCIL OF AGRICULTURAL RESEARCH

NATIONAL AGRICULTURAL SCIENCE FUND KAB-I, New Delhi-110012

Dies - 9

F.No. NFBSFARA/ WQ-3032/2013-14

Cash Book Voucher No.

Date: 10.08.2015

Sub:	Authorization for re	ease of funds for the first half of financial year 2015-16.	
Sub.		of funds has been approved for the NASF as per details given below: -	
1.	Name of the Project	Programme/Activity: "Bioremediation of contaminants in polluted sites: use of	weedy
2.	plants" Reference of Sanction	letter: Letter No. NEDSEADA/WO. 2022/2012 14	
3.	Name of the lead cent	letter: Letter No. NFBSFARA/WQ-3032/2013-14	
4.		ng centre(s): (a) WTC, IARI New Delhi (b) DU, Delhi,	
5.	Scheme Code: NASF		
6.		nt for the project: Rs. 206.3169 lakh	
7.	Total sanctioned amo	nt for the project for the current financial year 2015-16: Rs. 39.79190 lakh	
8. 9.		nt for the project (DU, Delhi): Rs. 48.23920 lakh	
10.	Amount now authorize	nt for the project (DU, Delhi) for the current financial year 2015-16: Rs. 11.06500 lakh d for payment of: Rs. 2.82965 lakh	
11.		ount already authorized for released: Nil	
12.		icate received up to (date): NA	
13.		favour of: The Registrar, Delhi University, Delhi	
14.	Release under NEH/T	P/Other than NEH region: Other than NEH region	
15.	The break up of amou	now authorized for payment is given overleaf in Table 1 (p2/3):	
		IFSC Code: SBIN0001067, Bank Account No. 10851298650	
Th	e fund for non-recuri	ng expenditure is being released almost in the beginning of the financial year. H	lence,
un	der no circumstances	ill there be any revalidation of this amount in the next financial year.	
		(P. K. Agarwal)	
		ADG (NASF)	
Section	Dairy	Date:	
Section	File No.	Sl. No. of App. Ledger	
Budget	Allocation checked and	ound correct. Submitted and Budget Allocation Register and Remittance Register.	
Dauger	rinocation enceked and	ound correct. Submitted and Budget Amocation Register and Remittance Register.	
		SF&AO	
		SF&AU	
Pay Rs	. (In words)		
		Senior Finance & Accounts Officer	
D-111	Characa Ma		
Paid by	Cheque No.	Date:	

Date:

Page 1 of 3

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INDIAN COUNCIL OF AGRICULTURAL RESEARCH

NATIONAL FUND FOR BASIC, STRATEGIC AND FRONTIER APPLICATION RESEARCH IN AGRICULTURE

KAB-I, New Delhi-110012

F.No. NFBSFARA/BSP-4012/2013-	-1	Į.
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Dated: 19.08.13

Sub: Authorization for release of funds for the first half (non-recurring only) of financial year 2013-14.

The following release of funds has been approved for the NFBSFARA as per details given below: -

- 1. Name of the Project/Programme/Activity: "The role of bacterial endosymbionts in shaping the insect-virus relationship in Bemisia tabaci"
- Reference of Sanction letter: Letter No. F.No. NFBSFARA/BSP-4012/2013-14
- 3. Name of the lead centre: Delhi University, New Delhi
- 4. Name of the Cooperating centre(s): IARI, New Delhi
- 5. Scheme Code: NFBSFARA
- 6. Total sanctioned amount for the project: Rs. 144.70390 lakh
- Total sanctioned amount for the project for the current financial year 2013-14: Rs. 64.68320 lakh
- 8. Total sanctioned amount for the project (DU, New Delhi): Rs. 106.82500 lakh
- 9. Total sanctioned amount for the project (DU, New Delhi) for current financial year 2013-14: Rs. 45.91320 lakh
- 10. Amount now authorized for payment: Rs. 14.75000 lakh (non-recurring only)
- 11. Year wise details of amount already authorized for released: Nil
- 12. Audit Utilization Certificate received up to (date): NA
- Grant to be released in favour of: IFSC Code: SBIN0001067, Bank account No. 10851298650, State Bank of India, University of Delhi Branch, University of Delhi, Delhi 110 007
- 14. The breakup of amount now authorized for payment is given overleaf in Table 1 (p2/3):

The fund for non-recurring expenditure is being released almost in the beginning of the financial year. Hence, under no circumstances will there be any revalidation of this amount in the next financial year.

(A. Bandyopadhyay) National Coordinator (NFBSFARA)

Section Diary

Date:

Section File No.

Sl. No. of App. Ledger

Budget Allocation checked and found correct. Submitted and Budget Allocation Register and Remittance Register.

		F&AO
Pay Rs. (In words)		
		Finance & Accounts Officer
Paid by Cheque No.	Date:	
Cash Book Voucher No.	Date:	



国际原子館机构
International Atomic Energy Agency
Agence internationale de l'énergie atomique
Международное агентство по атомной энергии
Organismo Internacional de Energía Atómica

SINGH Dileep Kumar Department of Zoology University of Delhi University Road New Delhi 110 007 Delhi India

Vienna International Centre, P.O. Box 100, A-1400 Vienna, Austria Phone: (+43 1) 2600 • Fax: (+43 1) 26007

E-mail: Official.Mail@iaea.org. Internet: http://www.iaea.org

In reply please refer to: RC-16407-R4

Dear Mr Singh,

Renewal of Research Contract No. 16407/R0

2015-06-02

Reference is made to Research Contract No. 16407/R0 between the IAEA and the University of Delhi which entered into force on 09 February 2011.

The IAEA desires to renew the Contract No. 16407/R0 for the period 01 August 2015 to 08 February 2016 with the following modifications:

1. Programme of Work

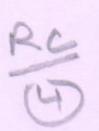
- 1. Vegetable and fruit: Molecular techniques for identification of Lettuce, Grape, Mango and Apple varieties will continue in 2015-2016. Experiments will be carried out for food traceability using stable isotopes of carbon. We are continuing the following works this year (2015-2016) also because these are the seasonal fruits and 1 to 2 years fruits sampling is required to conclude the proposed work. Samples will be taken from different localities of India.
- (i) Molecular techniques for identification of Lettuce, Grape, Mango and Apple varieties will be validated.
- (ii) Molecular markers will be develop for traceability of Lettuce, Grape, Mango and Apple varieties.
- (iii) 12C/13C ratio for Lettuce, Grape, Mango and Apple traceability will be estimated.
- (iv) Biological contaminants/pathogen for vegetable and fruits will be identified and estimated
- 2. Wheat, Rice and Orange: Methods will continue for identification and estimation of food contaminants in year 2015-2016 i.e. chemicals (metals, pesticides, fertilizers) and microbial contaminants (toxins) using GLC, HPLC, GCMS, NMR, ELISA and PCR.
- 3. Wheat, Rice and Orange: Work will continue for more varieties and more different locations.
- (i) Molecular markers will be develop and validated for traceability of wheat, rice and orange varieties for more different localities of India. This work will continue for the year 2015-2016.
- (ii) 12C/13C ratio for wheat, rice and orange traceability will be estimated for more different localities of India. This work will continue for the year 2015-2016.

2. IAEA's Contribution

The IAEA shall pay a sum not exceeding € 3 500 (Three Thousand Five Hundred). X 5 years

BT/IN/Indo-UK/BBSRC-Aqua/35/RC/2015-16

Ministry of Science & Technology Department of Biotechnology Government of India



Block 2, 8th Floor CGO Complex, Lodhi Road New Delhi 110 003 Dated: & March, 2016

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Power Rules, 1978 for the implementation of the Joint Research Project titled "Development of alternative sustainable fish feeds to promote human health using novel non-conventional indigenous ingredients" under DBT-BBSRC-DFID joint call of proposals on "Developing aquaculture for food security, development and poverty reduction in developing countries" with Indian investigators as detailed in Para 2.2. Indian components of the project is sanctioned at a total cost of Rs. 300.696 lakhs (Rupees Three Crore Sixty Nine Thousand and Six Hundred Only) for a period of 3 years on the terms and conditions as detailed here under:

2.0 The Project

- Project Title : "Development of alternative sustainable fish feeds to promote human health 2.1 using novel non-conventional indigenous ingredients".
- 2.2 Investigators :

Indian Investigators:

University of Delhi, Delhi:

- a. Prof Rina Chakrabati, Department of Zoology, University of Delhi, Delhi -PI and coordinator Goa University, Goa:
- a. Prof. Ramaballav Roy, Department of Zoology, Goa University, Goa-P1
- b. Prof. Savita Kerkar, Department of Biotechnology, Goa University, Goa-CO-PI

Kerala University of Fisheries and Ocean Studies, Kochi:

- a. Dr. K. Padma kumar, Kerala University of Fisheries and Ocean Studies, Kochi- PI
- b. Dr. S. Shyama, School of Aquaculture and Biotechnology, Kerala University of Fisheries and Ocean Studies, Kochi- CO-PI

Delhi Technological University, Delhi:

a. Dr. J. G. Sharma, Department of Zoology and Applied Aquaculture, Barkathullah University, Bhopal- PI

UK Investigators:

Professor Douglas Tocher, Institute of Aquaculture, University of Stirling, UK.

2.3 Project Objectives:

- University of Delhi, Delhi: 1.
 - a. To screen the free floating macrophytes from various freshwater bodies and assessment of their application as aquafeed ingredients.

b. To evaluate the proximate composition viz., moisture, crude protein, crude lipid, carbohydrates, fibres, ash, amino acids composition of selected macrophytes.

c. Development of culture techniques for selected macrophytes in laboratory (outdoor cemented tanks)

d. To evaluate the composition (moisture, crude protein, crude lipid, carbohydrates, fibres, ash, amino acids) of prepared diets.

e. In vitro digestibility study of prepared diets for Cyprinus carpio and Oreochromis niloticus using pH-Stat method.

f. To formulate and prepare diets for Cyprinus carpio (common carp) and Orechromis niloticus

g. Evaluation of performance of fishes fed with prepared diets in laboratory condition.

h. To disseminate knowledge and train farmers with culture techniques of freshwater macrophytes and selected fish species and preparation of diets.

Contd. 2/-

Annexuse I P2-16

Dated: 05-09-2013

नारत संस्कार

ाक्षान त्या प्राचीतिकी महालय. प्रभान क्षार प्राचीतिकी विभाग क्षारतिकी भवन महर्गली मार्ग. प्रशासना १००० ६

MINISTRY OF SCIENCE AND TECHNOLOGY.
DEPARTMENT OF SCIENCE AND TECHNOLOGY.
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD.
NEW DELHI 110016

No. INT/FRG/DAAD/P-231/2013

1. 1

NAME OF STREET

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ORDER

Sanction of the President is hereby accorded for implementation of the Indo-German (DST-DAAD) count research project entitled "Assessing Natural and Stimulated Biodegradation of the Pesticide Hexachlorocyclohexane (HCH) at Contaminated Field Sites Using Compound-Specific Stable Isotope Analysis (CSIA)" at a total cost of Rs. 9,08,000/- (Rupees Nine Lac Eight Thousand Only). The duration of the project shall be 2 years from date of issue of this sanction order. The requests for extension of the project beyond this validity shall NOT be considered in any case.

The composition of the project team is as below: German side Indian side Dr. Rup Lal, Professor, Molecular Biology i.) Dr. Hans H. Richnow, Department of Laboratory, Dept. of Zoology, University of Isotope, Biogeochemistry, Helmholtz Centre Delhi, Delhi-110007 Environmental Research for ii.) Pushp Lata Permoserstraße 15 / 04318 iii.) Puneet Kohli ii.) Dr. Anko Fischer iii.) Safdar Bashir iv.) Natalija Ivdra

The change/ replacement of project participants is not allowed. The participating scientists should be aking on the project and affiliated with the Institute/University holding the indicated position at the time of the project as well as at the time of exchange visits under the project. The expenditure related to approve lists of participating scientists, as mentioned above, only can be met from the project grant.

The break-up of estimated expenditure is as indicated below and no re-appropriation shall be allowed under project:-

	Estimated expenditure(s)		
Headings	1 st year	2 nd year	Total
1. Expenses for Indian scientists to visit Germany under the project	(2 visits) (30&60 days)	(2 visits) (30&60 days)	(4 visits)
International air-fare (by IATA excursion/ economy class by shortest route) including surface travel from place of work in India to place of work in Germany & back; Visa harges; Medical Insurance etc @ Rs. 65000/- per visit	1,30,000/-	1,30,000/-	2,60,000/-
2. Expenses for German scientists to visit India under the project	(2 visits) (30&60 days)	(2 visits) (30&60 days)	(4 visits)
(i) Accommodation charges @ Rs. 1100/- per day.	99,000/-	99,000/-	1,98,000/-
(ii) Per-diem charges @ Rs. 2500/- per day	2,25,000/-	2,25,000/-	4,50,000/-
3. Total	4,54,000/-	4,54,000/-	9,08,000/-

(Rupees Nine Lac Eight Thousand Only)

Contd. p/2

17.1

INDIAN COUNCIL OF AGRICULTURAL RESEARCH

NATIONAL AGRICULTURAL SCIENCE FUND (NASF)

KAB-I, New Delhi-110012

F.No. NFBSFARA/WQ-2023/2012-13

Dated: 27.05.2016

DRS-12

Sub: Authorization for release of funds for two months (April-May, 2016) for the financial year 2016-17 The following release of funds has been approved for the NFBSFARA as per details given below: -

1. Name of the Project/Programme/Activity: "Bioremediation of agrochemicals and heavy metals present in Yamuna and drainage water used for irrigation in urban and peri-urban agricultural areas"

- 2. Reference of Sanction letter: Letter No. NFBSFARA/WQ 2023/2012-13
- 3. Name of the lead centre: Delhi University, Delhi
- 4. Name of the Cooperating centre(s): (a) IIT, Delhi, IARI, New Delhi
- 5. Scheme Code: NFBSFARA
- 6. Total sanctioned amount for the project: Rs. 226.34604 lakhs
- 7. Total sanctioned amount for the project for the current financial year 2016-17: Rs. 3.8948 lakhs
- 8. Total sanctioned amount for the project (DU, Delhi): Rs. 97.1416 lakh
- 9. Total sanctioned amount for the project (DU, Delhi) for the current financial year 2016-17: Rs. 1.60160 lakh
- 10. Fresh release for the financial year 2016-17: Rs .37665 lakhs
- 11. Authorized to spent from saving of 2015-16: Rs. 1.22495 lakhs
- 12. Total release for the financial year 2016-17: Rs. 1.60160 lakhs
- 13. Year wise details of amount already authorized for released: Nil
- 14. Audit Utilization Certificate received up to (date): NA
- 15. Grant to be released in favour of: The Registrar, University of Delhi, Delhi -110007
- 16. Release under NEH/TSP/Other than NEH: Other than NEH region and TSP
- 17. The breakup of amount now authorized for payment is given overleaf in Table 1 (p2/3):

IFSC Code: SBIN0001067, Bank Account No. 10851298650

(P.K.Agrawal) ADG (NASF)

Section Dairy Section File No. Date:

Sl. No. of App. Ledger

Budget Allocation checked and found correct. Submitted and Budget Allocation Register and Remittance Register.

		F&AO (NASF)
Pay Rs. (In words)		
		Finance & Accounts Officer (NASF)
Paid by Cheque No	Date:	
Cash Book Voucher No.	Date:	

Page 1 of 3

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