2.3 Objectives: 1.

- Development of cyto-pathological biom 2.
- kidney gill and brain
- To demonst lite the ecological relevance associated with combining cellular
- blomarkers .ith cyto-pathology 3.
- Development of hormonal biomarkers e.g. T3 and T4 TSH, Cortisol, Testosterone and Estrogen 4.
- Development of enzymatic and antioxidants biomarkers e.g. Glutathione, Super o dismutase, Catalase, Pyruvate kinase, Glucose - 6 phosphate dehydrogenase, and Ascorbic acid 5.
- Developmen of new cellular and hormonal biomarkers as Bio-monitoring tools for early assessment of biological effect of complex mixture of pollutants
- 5. Developmen, of biomarkers based on gonadal and hormonal disruption indicative pollutant alteration revealing secondary effects at population/community level
- 7. Validation of the methodology for the biomarker use in ecological risk assessment
- 8. Preparation : * information and advice to decision makers and fisheries and related institutions a rout the biological effects of chemical toxicants in the fresh water fish
- 9. Application or cyto-pathological and biochemical biomarkers in environmental monitoring schemes and integration into national monitoring program
- 10. Development of simple, sensitive and cost-effective environmental monitoring systems of t' clogical effects
- 11. Development of tools for environmental risk assessment and acceptance criteria for monitoring in "uents that can safeguard the interests of precautionary principle.

2.4 Time Schedule:

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

2.5 Project Cost:

The total cost of the project is Rs. 2952800/-(Rupees Twenty Nine Lakhs Fifty Two Thousand Eight Hum red Only) as per details given below :

Buduget Head	Yibri	Year II	Year III	Total(Rs.)
Equipment	1110000.00			1340000.00
Mandower	1 1000.00	297600.00	297600.00	892800.00
Travel	3000.00	40000.00	40000.00	120000.00
Consumables	- 1000.00	120000.00	140000.00	450000.00
Contingency	. (200,00	\$0000.00	\$0000.00	150000.00
Total (Rs.)	1887600.00	537600.00	\$27600.00	2952800.00

2.5 Equipment:

The details of the equipment sanctioned for the implementation of the project at

Annexure-I ...? Manpower:

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

3. Hand of Account:

Tr a Non-Recurring expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2012-2013
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Research & Development
3425.60.200.29.02	Bioresource and Environment Biotechnology
3425.60.200.29.02.35	Grants for creation of capital assets
e Recurring expenditure	involved is debitable to:
Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2012-2013
3425,60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Research & Development
3425.60.200.29.02	Bioresource and Environment Blotechnology
3425.60.200.29.02.31	Grants in Aid General

1. Terms & Conditions:

- Considering the time bound nature of the project, the project will be monitoreal by the Task Force Committee constituted by DBT. In addition, the PI will submit half yearly progress report as per format in Annexure-V.
- 4.1 The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2# 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 grant to institutions and Its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV
- 4.3The Institute/Agency will keep the whole of the grant in a Bank Account earnin ; interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/rgency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of
- 5.No International Travel will be undertaken from the sanctioned project grant unless specified
- 6.The Registrar, Patha University, Patha, Bihar would be responsible for submission of Statements o' Expenditure (S/E) and consolidated utilization certificates (U/Cs) to DBT from PIs in respect of
- grants released against this sanction order from time to time.
- 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.
- 8. This issues under the power delegated to this Department and with the concurr ince of IFD vide their SAN No.102/IFD/SAN/5205/2012-2013 dated March, 07 2013.
- 9. This sanction order has been noted at serial no. 87. in the Register of Grants.

Dr. Onkar N Tiwari (Scientist 'C')

Severated through eProMIS

Page No. [3 / 6]

To,

The Pay A Accounts Officer, Department of Biotechnology, New Delbi - 110 003.

Copy to:

- The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi-002. 2
- The Registrar, Patha University, New Administrative Building
- Patna University Main Campus, Patna 800005, Bihar 3 Dr. Chaudhary Shu-fudding, Associate Professor, Post Graduate Department of Botar
- Patha University, Ashok Rajpath, Patha 800005, Bihar Dr. Rajneesh Kumar, Associate Professor, Department of Chemistry, Patna University, -1
- 6 Prof. Ramesh Chandra Sinha, Chief Executive& Chairman, CENC, Department of Zoolog;
- Patna University, Ashok Rajpath, Patna 800005, Bihar
- Cash Section, DBT (2 copies).
- Sanction Folder.
- 11 File Copy,

Dr. Onkar N Tiwari (Scientist 'C')

24236351, 23232760, 13237721, 23234816 23235733, 23232307, 23236735, 23239487



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1.2

F. No. 42-94/2013 (SR)

University Grants Commission New Delhi-110002

7

Sub:-

UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers - Project entitled,

"Secrutiy perspecive and geostrategic, and geopolitical realities of the borderlands management management in Jammu & Kashmir : A study in relation to Pakistan and China"

Sir.

I am to refer to your letter forwarding the application of Dr. Sudcepta Adhikari of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction an on account grant of Rs. 6.96,800- (Rupees: six lakk ninety six thousand eight hupdred only) to the Registror, Patna University, Patna-800005, Bihar in to Major Research Project of Dr. Sudcepta Adhikari, Ocpariment of Geography for the period of 3 years w.e.f. 1.4,2013 as detailed below:-

S.No	TTEMS	AMOUNT	GRANT RELEASED AS ISTINSTALMENT	Categ ory
A. 1. 2.	Non - Recurring Books & Journals Equipunent (as per proposal)	50,000/- 1.50,000/-	2,00,000/	GEN
B. 1. 2. 3. 4. 5. 6. 7.	Recurring Honorarisan to Retd. Teacher @ Rs. 12, 000/- p.m. Project Fellow @14,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards. Chemical/ Glassware / Consumable Hiring Services Contingency Travel/Field Work Special Need Overhead Charges @ Rs. 10% approved recurring Overhead Charges @ Rs. 10% approved recurring	nil 5.28.000/- 150.000/- 1.50.000/- 1.50.000/- nil 70.300/-	4,96,800/-	
8.	Overhead Charges & Field Work) Grant (Except Travel & Field Work) Total (A + B)	11,23,3007-	6,96;800/-	1

The acceptance Certificate in prescribed format (Annexare-1 available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site www.ugc.itc.in the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post in variably with in 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission in time.

The first instalment of the grant shall comprise of 100% of the Non -Recurring including Over Head Charges, and 50% of the total Recurring grant.

No. T-WQM-PR-R.GANGA - 5416 National Mission for Clean Ganga National Ganga River Basin Authority Ministry of Water Resources, River Development & Ganga Rejuvenation

1" Floor

Major Dhyan Chand National Stadium. India Gate, New Delhi – 110002 Dated: 2.5 "November 2016

Sanction

I am directed to convey the approval of the Competent Authority for the release of payment of Rs. 1.07.34.9834- (Rupees One Crore Seven Lakins Thirty Four Thousand Nine Hundred Eighty Three only) to Department of Zoology. Patha University for Water Quality Monitoring Project of River Ganga (Bihar stretch) for National Ganga River Basin Authority Projects for the period from April 2011 - March 2015 to ap per datalls given below.

S.No.	Details	Financial Year	Amount in Rs.
1		2011-12	24.50,778/-
2	Water Quality Monitoring Project of River Ganga (Bihar stretch)	2012 - 13	24.50,470/-
3		2013 - 14	19,07,595/-
4		2014 - 15	19,63,070/-
5		2015 - 16	19.63.070/-
-		Total	1,07,34,983/-

 The Finance Section, NMCG is hereby authorized to prepare and submit the bill of Rs 1,07.34,983/- (Ruppes One Crore Seven Lakhs Thirty Four Thousand Nine Hundred Eighty Three only) to make payment electronically to Patna University. Patna whose bank details are given below.

Name of the Implementing Agency	Address of the Implementing Agency	Name of bank where Account of Agency held	Name & complete address of the Bank Branch	MICR Code & IFSC Code	Type of Account	Account No.
Patna University, Patna	Patna - 800005 Patna - 800005	Allahabad Bank	Allahabad Bank, Parna University Branch, Patna – 800005	MICR-800010003 IFSC-ALLA0210002	Saving Account	20245318550

Receipts of funds may kindly be acknowledged by way of a letter.

3. The expenditure involved is debitable to the non- EAP bank account of NMCG for the year 2016-17.

4. This issues with the approval of Mission Director, NMCG and concurrence of Director (Finance) vide diary no. 2120/Dir(Fin) dated 11.11.2016.

(K. K. Sápra)

Under Secretary

To,

Consultant (B&A) (To release above payment)

Copy to: The Registrar, Patna University, Patna - 800005 (Bihar)

Copy for information to:

- 1. PS to Mission Director, NMCG.
- 2. PS to Director (Finance), NMCG.
- 3. US (SMD), NMCG
 - 4. Dr. R. K. Sinha, Professor, Department of Zoology, Patna University, Patna 800005
 - 5. Sanction File/ Guard file.

(K. K. Sapra) Under Secretary

13

13236354, 23232764, 23237721, 23234116 2323733, 23232317, 33236735, 13235437



विश्वविद्यालय अनुयान आयोग बहायुरगांठ जफर मार्ग नई दिल्ली-110 002 UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELINI 100 002

F. No. 6- 139/2012 (HRP)

The Under Secretary (FD-III) University Grants Commission New Delhi-110002

3'O AUG 2012

Sub:-UGC support for the Minor Research Project in Humanities and Socials Sciences to University/College Teachers - Project entitled, "Working Dynamics of Consumers Protection Laws in the City of Patna- A Critical Study"

Sir.

1 am to refer to your letter forwarding the application of Dr. Vani Bhushan of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction an on account grant of Rs. 1,00,000/- (Rupees: One lakh only) to the Registrar, Patna-University, Patna- 800 006, Bihar in r/o Minor Research Project of Dr. Vani Bhushan, Department of Law for the period of 18 months w.e.f. 1.7,2012 as detailed below:-

S.No.	ITEMS	Amount Approved	Grant Released as 1st instalment	Category
Λ.	Non - Recurring			
1.	Books & Journals	50,000/-	50,000/-	
2.	Equipment ()		50,000-	
B.	Recurring			
1.	Honorarium to Retd. Teacher @ Rs. 12.000/- p.m.			1
2.	Project Fellow (i) Rs.14,000% p.m.		50,000/-	
3.	Contingency ()	50,000/-	50,000-	1
4	Hiring Services	*******		1
2	Travel/Field Work	50,000/-		1
6.	Any other (P.1. Specify)			1
7.	Overhead Charges 10% of approved recurring Grant (Except Travel & Field Work)	********		
1	Total (A + B)	Rs. 1,50,000/-	Rs.1,00,000/	-

The acceptance Certificate in prescribed format (Annexure-I available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site www.ugc.ac.in the Demand Draft/ Cleque being sent may be retained. Otherwise the same may be retained in original to the UGC by Registered Post in variably with in 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary; UGC, New Delhi.

Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be turnished to the University Grants Commission in time.

The first instalment of the grant shall comprise of 100% of the Non -Recurring including Over Head Charges, and 50% of the total Recurring grant. The sanctioned amount is debitable to the Minor Head 4.(i)(b)(i)(31) Rs.50,000/- & Head 4.(i)(b)(i)

The amount of the Grant shall be drawn by the Under Secretary (drawing and Disbursing Office). University Grants Commission on the Grants-in-aid Bill and shall be disbursed to and credited to the University/College. Patna University, Patna- 800 006, Bihar through Cheque/Demand Draft/ Mail Transfer

The Grants is subject to the adjustment of the basis of Utilization Certificate in the prescribed performa submitted by the University/Colleges/institution.

The University/College shall maintain proper accounts of the expenditure out of the grants which shall be utilized only on approved items of expenditure.

The Utilization Certificate of the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission as early as possible after the close of the current financial year.

The assets acquired wholly or substantially out of University Grant Commission's grant shall not be disposed or encumbered of utilized for the purposes other that those for which the grant was given, without proper sanctioned of the University Grants Commission and should, at any time the College/University ceased in function such assets shall revert to the University Grant Commission.

- A Register of assets acquired wholly or substantially out of the grant shall be maintained by the University/College in the prescribed form.
- 8. The grantee invatution shall ensure the utilization of gram-in-aid for which it is being sanction/paid. In case non-utilization/part utilization, the simple interest @ 10% per annum us amended from time to time on unutilized ansunt from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Uovi. of India will be charged.
 - 9. The interest earned by the University/College/Institute on this grants in hid shall be treated as additional grant and may be shown in the Utilization Certificate/Statement of expenditure to be furnished by grantee institution.
 - The University/Collegefinitiute shall follow strictly all the instructions issued by the Government of India from time to time with regard to reservation of posts for Scheduled Caste#Scheduled Tribes/OBC/PH etc.
 - Whe University/College shall fully implement to Official Language Policy of Union Govt: and comply with the Official Language Act, 1963 and Official Languages (Use for Official purposes of the Union) Rules, 1978 etc.
 - 12 The sanction issues in exercise of the delegation of powers vide Commission Office Order No. 25/92 dated May 01, 1992.

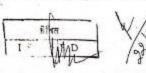
 - 14. It is also certified from the B.C.R. that the tends are available under the scheme. Entered in BCR at S.No 1466 P. No. §3-The above grant is sanching against the budget provision of Rs. during the current financial year leaving a balance of Rs. under the Head 4.(infbit)(31) Rs. 50,000/- & Head 4.(infbit)(35) Rs.50,000/-.
 - 15. The funds to the extent are available under the Scheme.
 - the University/Institution/College is strictly following the UGC regulations on curbing the menace of ragging in Higher Educational Institutions, 2009.

a Batra) Deputy Secretary

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Copy forwarded for information and necessary action for-

- The Registrer, Patna University, Patna- 800 006, Bihar. Acknowledgement for the receipt of DD / Cheque / Mail Transfer for Rs. 1,00,000/- may be sent to the Under Secretary, Finance Division III, UGC, -
- 2. Dr. Vani Bhushan, Principal Investigator, Department of Law, Patna University, Patna- 800 006, Bihar
- Office of the Director General of Andit. Central Revenues. A G. C. R. Building, I. P. Estate, New Delhi.



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(R. S. Bharati) Section Officer 13236351, 23232701, 23237721, 23234116 13235733, 23232317, 23236735, 23239437



विषवविद्यालय अनुवान आयोग बहादुर्रशाह जफर मार्ग नर्द्र हिल्ली-110 002 UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELHI-110 002

F. No. 41-1419/2012 (SR)

The Under Secretary (FD-III) University Grants Commission New Delhi-110002

30 JUL 2012

Sub:- UGC support for the Minor Research Project in Physical Sciences, Bio-Sciences, Maths , Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers – Project entitled,

"Socio-economic problems and the impact of Jawaharlal Nehru National Urban Renewal Mission on the Slum dwellers of Patna"

Sir,

DO

416

1 am to refer to your letter forwarding the application of Dr. Anuradha Sahay of your institution for financial assistance under the above scheme and to convey the Commission's <u>approval & sanction an on account</u> grant of Rs. 1,20,000/- (Rupees: one lakh twenty thousand only) to the Registrar, Patna University, Patna-800005, Bihar in r/o Minor Research Project of Dr. Anuradha Sahay, Department of Geography for the period of 2 years w.e.f. 1.7.2012 as detailed below:-

S.No.	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS Ist INSTALMENT	Category
A.	Non - Recurring		80,000/-	GEN
	Books & Journals	30,000/-		
2.	Equipment (As per proposal)	50,000/-		
B. 1. 2. 3.	Recurring Chemical/ Glassware / Consumable Hiring Services	nil nil 50,000/-	40,000/-	
3.	Contingency Travel/Field Work	30,000/- /	1	
4	Special Needs	nil	/	
-	Total (A + B)	1,60,000/-	1,20,000/- /	

The acceptance Certificate in prescribed format (Annexure-1 available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site www.ugc.ac.in the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post in variably with in 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission in time.

The first instalment of the grant shall comprise of 100% of the Non -Recurring including Over Head Charges, and 50% of the total Recurring grant.



Government of India Department of Atomic Energy (DAE) Board of Research in Nuclear Sciences (BRNS)

Shri Subrata Dutta

Programme Officer, BRNS and Co-ordinator, KSKRA & DGFS E-mail: dsubrata@barc.gov.in

BRNS Secretariat, 1st Floor, CC BARC, Mumbai-400 085 Phone: 25595331 FAX: 022-25505151

No.2012/35/5/BRNS/ 10 5 37

CE MEMORANDUM

Date: 2 1 MAY 2012

R/P entitled "Radiation pretreatment of cellulosic agro-wastes for production of bio-ethanol" Sub: under Dr. Birendra Prasad, Associate Professor, Patna University, Patna-800 005, Bihar bearing sanction No.2012/35/5/BRNS with RTAC, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for three years beginning from financial year 2012-13 with a total grant of ₹.24,70,600/- (Rupees twenty-four lakh seventy thousand and six hundred only) for the project as under:

	Item of expenditure		I Year (2012-2013)	II Year (2013-2014)	III Year (2014-2015)
•	Equipment		4,70,000	2 64 000	
# ~	Staff RA (1) Technical Assistance		2,64,000 24,000	2,64,000 24,000	2,64,000 24,000
	Consumables		1,50,000 70,000	1,00,000	1,00,000
	Travel (PI) (PC)		50,000	70,000 50,000	70,000 50,000
•	Contingency Overheads		40,000 77,100	40,000 38,100	40,000
\$	Crycineaus	-			38,100
	12	Total:	11,45,100	5,86,100	5,86,100
				Townshipson the second	

Spectophotometer

RA salary calculated @ ₹.22,000/- p.m. consolidated.

Technical Assistance includes Equipment Hire Charges, Computer Charges and Charges for Hiring Services.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% S towards overheads (₹.1,53,300/-) shall be released only on meeting the requirements specified (See Annex-B).

Mapon



SILE-Easter Easter UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW-DELIII-110002

No. F. 5- 55/2010(HRP)

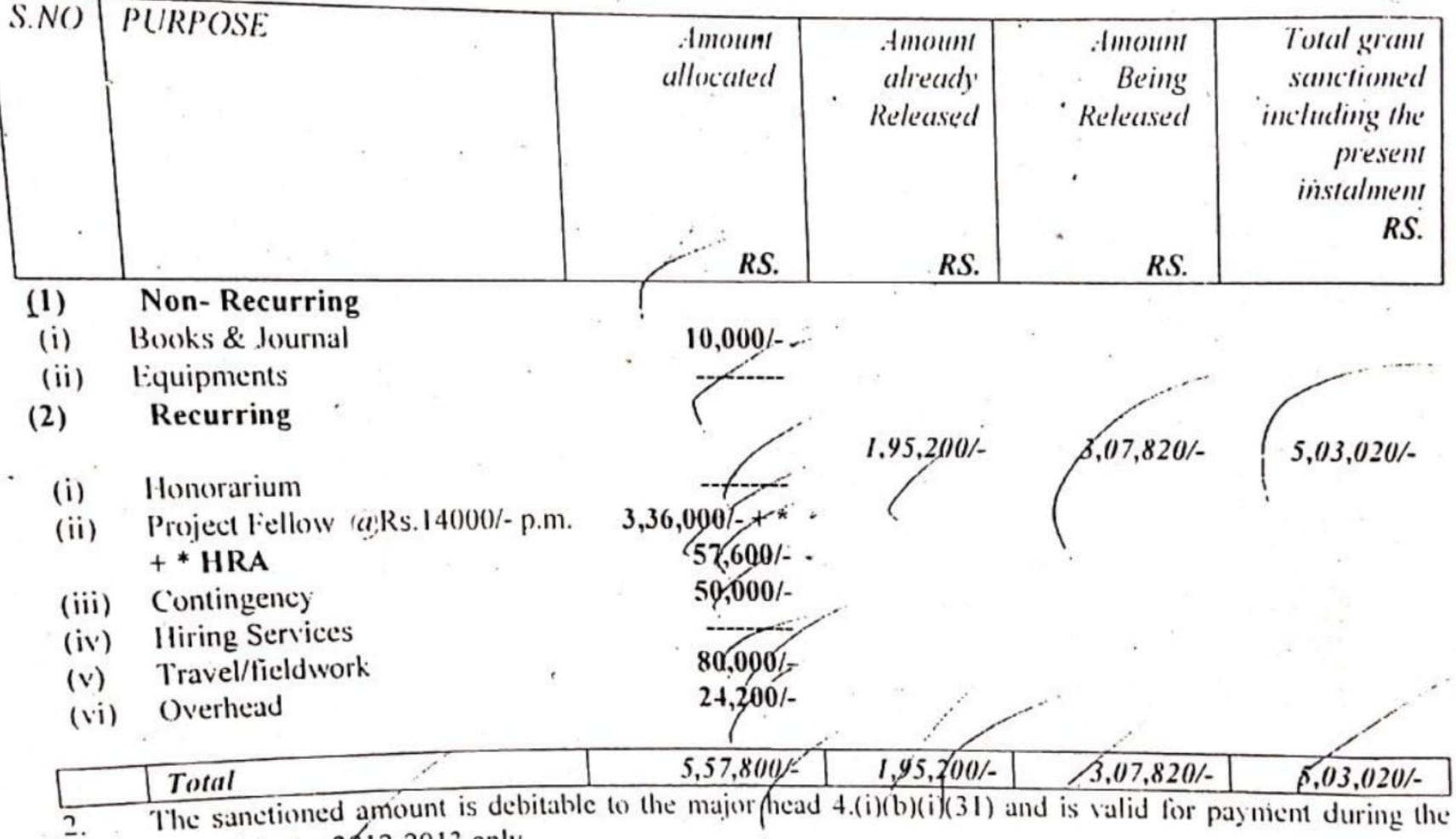
The Under Secretary (FDIII). University Grants Commission. Bahadur Shah Zafar Marg. New Delhi-110002.

M

2 1 DEC: 2012

Sub:- Release of Grants-in-aid to Patna University, DIST.:Patna – 800 005, Bihar (affiliated to) towards Major Research Project undertaken by Dr. Dharmshila Prasad, Deptt. of Sociology.

I am directed to convey the sanction of the Commission for payment of Rs.3,07,820/- (Rupees Three lakhs seven thousand eight hundred and twenty only) to Patna University, DIST.:Patna – 800 005, Bihar towards Major Research Project in respect of Dr. Dharmshila Prasad, Deptt. of Sociology as per the details given below:-



financial year 2012-2013 only.

3. The amount of the grant shall be drawn by the Under Secretary (Drawing & Disbursing Officer). University Grants Commission on the Grant-in-aid bill and shall be disbursed to and credited to the Registrar, Patna University, DIST.:Patna – 800 005, Bihar through Cheque/ Demand Draft/ Mail

Transfer.

4.

5.

7.

- The Grant is subject to the adjustment on the basis of the Utilization Certificate in the prescribed proforma submitted by the University/College/Institution.
- The University/College shall maintain proper accounts of the expenditure out of the grants which shall be utilized only on approved items of expenditure.
- 6. The Utilization Certificate to the effect that the Grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission as early as possible after the close of the current financial year.
 - The Assets acquired wholly or substantially out of the University Grants Commission's Grant shall not be disposed or encumbered or utilized for the purpose other than those for which the grant was given without proper sanction of the University Grants Commission and should, at any time of the University ceased to function such Assets shall revert to the University Grants Commission.

P.T.O.

No. BT/PR4577/INF/22/149/2012 GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors CGO Complex, Lodhi Road, New Delhi- 110 003 Dated: 26/03/2012

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 "DBT-Patna University-IPLS

Programme for Advance Research and Education" for a period of 5 Year 0 Month at a total cost of Rs. 44896830 (Rupees Four Crores Fourty Eight Lakhs Ninety Six Thousand Eight Hundred and Thirty Only) on the terms and conditions detailed here under:-

2 The Project :

"DBT-Patna University-IPLS 2.1 Title :

Programme for Advance Research and Education"

2.2 Project Investigator :

Prof. Upendra Kishore Sinha

PI Botany Patna University Department of Botany, Patna University, Patna, Patna -800005, Bihar

CO-PI:

Dr. Parimal Kumar Khan

Associate Professor Zoology Patna University Department of Zoology, Patna University, Patna - 800005, Bihar

Dr. Birendra Prasad

Associate Professor Biotechnology Patna University Department of Biotechnology, Patna University, Patna, Patna - 800005, Bihar

2.3 Objectives:

1. (a) Assessment, maintenance and conservation of Medicinal Plant Biodiversity of Bihar

- (b) Assessment of Antimutagenicity of certain herbal extracts in modulating
- environmental

mutagenesis in fishes.

(c) Exploration of microbial biodiversity in the search of antimicrobial secondary metabolite

producers, agro-wastes degraders and biocontrol agents.

2.4 Time Schedule:

The duration of the project is 5 Year 0 Month from the date of this sanction order.

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Page No. [1 / 6]

2.5 Project Cost:

The total cost of the project is Rs. 44896830/-(Rupees Four Crores Fourty Eight Lakhs Ninety Six Thousand Eight Hundred and Thirty Only) as per details given below :

Buduget Head	Year I	Year II	Year III	Year IV	Year V	Total(Rs.)
Equipment	21083470.00					21083470.00
Manpower	2583552.00	3980352.00	5189952.00	4153152.00	2756352.00	18663360.00
Overhead	200000.00	200000.00	200000.00	200000.00	200000.00	1000000.00
Consumables	400000.00	400000.00	400000.00	400000.00	400005.00	2000000.00
Contingency	100000.00	100000.00	100000.00	100000.00	100000.00	500000.00
Travel	100000.00	100000.00	100000.00	100000.00	100000.00	500000.00
Laboratory Training Workshops, Short term training programme for faculty	50000.00	50000.00	50000.00	50000.00	5000D.00	250000.00
Remuneration to mentors	100000.00	100000.00	100000.00	100000.00	100000.00	\$00000.00
short term training programme for faculty outside the university		100000.00	100000.00	100000.00	100000.00	400000.00
Total (Rs.)	24617022.00	5030352.00	6239952.00	5203152.00	3806352.00	44896830.00

2.6 Equipment:

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

2.7 Manpower:

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

3. Head of Account:

The Non-Recurring expenditure involved is debitable to:

Department of Biotechnology
Other Scientific Research 2011-2012
Others
Assistance to other Scientific Bodies
Biotech Facilities
Biotech Facilities
Grants for creation of capital assets

The Recurring expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
	Other Scientific Research 2011-2012
3425	Others
3425.60	Assistance to other Scientific Bodies
3425.60.200 3425.60.200.40	Biotech Facilities
3425.60.200.40.00	Blotech Facilities
3425.60.200.40.00.31	Grants In Ald General

4. Terms & Conditions:

The terms and conditions related to work plan and monitoring etc. are available under Annexure

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV

4.3The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of

- Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of
- 5.No International Travel will be undertaken from the sanctioned project grant unless specified
- 6. The Registrar, Patna University, Patna, Bihar would be responsible for submission of Statements of Expenditure (S/E) and consolidated utilization certificates (U/Cs) to DBT from PIs in respect of

grants released against this sanction order from time to time. 7. 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.

8. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No.102/IFD/SAN/5318/2011-2012 dated March, 23 2012.

in the Register of Grants. 9. This sanction order has been noted at serial no. 22

. SR Rao (Adviser)

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

Page No. [3 / 6]

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Copy to:

- The Principal Director of Audit (Scientific Departments), DACR Building, New Deihi- 110 1 002.
- The Registrar, Patna University, New Administrative Building 2
- Patna University Main Campus, Patna 800005, Bihar
- Dr. Birendra Prasad, Associate Professor, Biotechnology, Patna University, Department 3 of Biotechnology, Patna University, Patna, Patna - 800005, Bihar
- Dr. Parimal Kumar Khan, Associate Professor, Zoology, Patna University, Department of 4 Zoology, Patna University, Patna - 800005, Bihar

5 Prof. Upendra Kishore Sinha, PI, Botany, Patna University, Department of Botany, Patna University, Patna, Patna - 800005, Bihar

- Cash Section, DBT (2 copies). 6
- Sanction Folder. 7
- File Copy. 8

Dr. S R Rao (Adviser)

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Z The Finance Socion NMCG is hereby authorized to prepare and submit the buill of Rs 1-37 34 963// (Ruppes One Croila Saven Lakhs Thirty Four Those and Mine Hundred Rs 1-37 34 963// (Ruppes One Croila Saven Lakhs Thirty Four Those and Mine Hundred Register and Saven beited of the Participation of the Participation and a section beited.

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2013-16

No. BT/PR4"62/BCE/8/903/2012 GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

Dr Rc Sinha Project-

Block 2, (6-8th Floors) NO Complex, Lodhi Road, New Delhi- 110 003 Date: 11/03/201

RELEASE ORDER

In continuation of this Department's sanction order of even number dated Mar 07, 2013 sanction of the President is hereby accorded, under Rulet's of the Delegation of Flown is Powers Rule, 1978 for the release of Rs. 547600.00 (Pupper: Flow Lokks Pourty Seven Thousar 1 Six Hundred Only) of pollution- A simple, sensitive and prognostic tool for water quality (ssessment", being implemented by

Prof. Ramesh Changra Sinha, Patha University, Ashok Rajpath, Patha - 800005, Bihar

The detailed break-up is as given below:

anstitute Name				urring			Total Release Amount (Rs)
	Manpower	Consumable	Travel	Contingency	Others	verhead	(instant (inst)
Patoa University	297600.00	160000.00					
			40000.00	50000.00	0.00	0.00	547600.00

 The emount of Rs. 547600.00 /-(Rupees Five Lakhs Fourty Seven Tho: sand Six Hundred Oni /) will be drawn by the Drawing & Disbursing Officer, DBT, from the Pay L Accounts Officer, DBT, and disbursed through RTGS as per following details:

The Registrar, Patha University, New Administrative Building Patha University Main Campus, Patha - 800005, Bihar

 Bank Name
 Central Bank of India

 Branch Name
 Patha University

 A/c No
 3043949898

 IFSC Code
 CBIN0283532

 MICR Code
 800016024

The expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2012-2013
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head
3425.60.200.29	Research & Development
3425.60.200.29.02	Bioresource and Environment Biotechnology
3425.60.200.29.02.31	Grants in Aid General

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bjectives:

- Developmer , of cyto-pathological biomarkers of liver, kidney gill and brain
- To demonsy site the ecological relevance associated with combining cellular
- biomarkers , ith cyto-pathology
- Development of hormonal biomarkers e.g. T3 and T4 TSH, Cortisol, Testosterone
- Development of enzymatic and antioxidants biomarkers e.g. Glutathione, Super oxide dismutase, Catalase, Pyruvate kinase, Glucose - 6 phosphate dehydrogenase, and
- Developmen of new cellular and hormonal biomarkers as Bio-monitoring tools for early assessment of biological effect of complex mixture of pollutants 5.
- Developmen: of biomarkers based on gonadal and hormonal disruption indicative of pollutant alteration revealing secondary effects at population/community level 6:
- Validation of the methodology for the bigmarker use in ecological risk assessment 7.
- Preparation : * information and advice to decision makers and fisharies and related Π.
- institutions about the biological effects of chemical toxicants in the fresh water fishes Application or cyto-pathological and biochemical biordarkers in environmental 9.
- monitoring si tiemes and integration into national monitoring program Development of simple, sensitive and cost-effective environmental monitoring 10.
- systems of biological effects
- Development of tools for environmental risk assessment and acceptance criteria for monitoring of fuents that can safeguard the interests of precautionary principle 11.

1.4 Time Schedule:

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

1.5 Project Cost:

The total cos. of the project is Rs. 2952800/-(Rupees Twenty Nine Lakhs Fifty Two usand Eight Hun ired. Only) as per details given below :

Buduget Head	YearI	Year II	Year III	Total(Rs.)
	1310000.00			1340000.00
Equipment	1/10000100	297600.00	297600.00	892800.00
Manpower	1000.00	40000.00	40000.00	120000.00
Travel	1,0000.00	150000.00	140000.00	450000.00
Consumables		50000.00	50000.00	150000.00
Contingency	.0000.00		527600.00	2952800.00
Total (Rs.)	1887600.00	537600.00	527800.00	

2.5 Equipment:

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

7.7 Manpower:

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

3. Head of Account:

The Non-Recurring expenditure involved is debitable to:

Page No. [2 / 6]

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nand No. 87	Department of Biotechnology	_
25	Other Scientific Research 2012-2013	
425.60	Others (Sub Major Head)	_
3425.60.200	Assistance to other Scientific Bodies (Minor Head	1)
3425.60.200.29	Research & Development	
3425.60.200.29.02	Bioresource and Environment Biotechnology	
3425.60.200.29.02.35	Grants for creation of capital assets	
e Recurring expenditure	involved is debitable to:	
Demand No. 87	Department of Biotechnology	ł.
3425	Other Scientific Research 2012-2013	
3425.60	Others (Sub Major Head)	
3425.60.200	Assistance to other Scientific Bodies (Minor Head	1)
3425.60.200.29	Research & Development	
3425.60.200.29.02	Bioresource and Environment Biotechnology	
3425.60.200.29.02.31	Grants in Ald General	

1. Terms & Conditions:

- Considering the time bound nature of the project, the project will be monitored by the Task Force / Committee constituted by DBT. In addition, the PI will submit half yearly progress report as per format in Annexure-V.
- 4.1 The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grant te institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is minidatory first release. A format of the MoA is enclosed in Annexure-IV
- 4.3The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the/Utilisation. Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
- No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 6.The Registrar, Patha University, Patha, Bihar would be responsible for submission of Statements of Expenditure (S/E) and consolidated utilization certificates (U/Cs) to DBT from PIs in respect of
- I grants released against this sanction order from time to time.
- 7. 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.
- This issues under the power delegated to this Department and with the concurrince of IFD vide their SAN No.102/IFD/SAN/5205/2012-2013 dated March, 07 2013.
- 9. This sanction order has been noted at serial no. 87. in the Register of Grants.

Dr. Onkar N Tiwari (Scientist 'C')

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Page No. [3 / 6]

re Pay & Accounts Officer, department of Biotechnology, New Delhi - 110 003.

Copy to:

- The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110
- The Registrar, Patha University, New Administrative Building Dr. Chaudhary Shu-fudding, Associate Professor, Post Graduate Department of Botany, 2
- Patna University, Ashok Rajpath, Patna 800005, Bihar Dr. Rajneesh Kumar, Associate Professor, Department of Chemistry, Patna University, 3.
- Prof. Ramesh Chandra Sinha, Chief Executive& Chairman, CENC, Department of Zoology, 4 Ashok Rajpath, Patria - , Bihar 5
- Patna University, Ashok Rajpath, Patna 800005, Bihar
- Cash Section, DBT (2 copies). ő
- Sanction Folder. 7
- File Copy. 8

Dr. Onkar N Tiwari (Scientist 'C')

Page No. [4 / 6]

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4

Gmail - Repairing meeting on GANGA PROJECT



2019-19 Project

R.C. Sinha <rcsinha41@gmail.com>

Regarding meeting on GANGA PROJECT

Pranav Nagarnaik spinological services.in> Mon To: rcsinha41@gmail.com, psingh.civ@itbhu.ac.in Cc: Rakesh Kumar <r_kumar@neeri.res.in>, director@rieeri.res.in, k_khaimar@neeri.res.in

Dear Prof. Sinha and Prof. Singh,

We thank you for taking the time to discuss the project and for giving your valuable inputs, nour inputs, and support would be highly beneticial towards the outcome of this project.

The sampling of the river is split in two stretches viz. First stretch from Gomukh to Haridwar and Second Stretch Bijnor to Bhagalpur. The key locations selected for the study in Second stretch are Bijnor, Kanpur, Allahabad, Varanasi, Patna and Bhagalpur. The chemical aspect with respect to contribution towards non putrefying property of River Ganga is divided in 6 components which were discussed and detailed out in the presentation which was shared this morning. We look forward to your support and collaboration on execution of this project.

As suggested by Rakesh sir in the meeting, we can finalize the terms of reference for the project. I am sure that the support and collaboration would go far beyond the ToR but as it is required I request you to send the ToR in terms of activities which would be carried out and a cost estimate. Following are some of the activities which can be collaborated on

- Water quality monitoring in the Second stretch for routine physico-chemical parameters, demand parameters and nutrients
- Support in carrying out detailed investigation on variation in Dissolved oxygen. Data collection, field
 experiments and lab experiments to identify factors and their values contributing towards changes in
 dissolved oxygen in the river
- Analysis of sediments in terms of composition and phase determination through techniques like XPS, XRF, TEM
- Laboratory and field Experiments to understand the water sediment interface
- Analysis of organic in water and sediment (LC-MS/MS analysis) from plant origin
- Support in collection of Health survey for risk assessment
- Support in collection of secondary health data from PHCs and hospitals
- Support in QA/QC activities

All the field / lab experiments and analysis would be carried with an aim to understand their impact on the non-putrefying nature of River Ganga.

Director, NEERI has accorded approval for the sum of Rs. 20,00,000/- (Rs. 10,00,000 each for Patna University and IIT-BHU) from the project titled "Detailed study to understand the non-putrefying property of river Ganga in both water and sediment".

Mon, Nov 20, 2017 at 7:25 PM

The schedule of payment as sanctioned by NMCG is as follows:

S. No.	Milestone	X 3. 444	Cumulative % Release	
1.	Submission of Implementation Plan	10	10	
2,	Initiation of 1 st year post monsoon season monitoring	5	15	
З.	Completion of 1 st year post monsoon season monitoring	10	25	
4.	Initiation of 1 st year pre-monsoon sesson monitoring	A Serve	+ [/] 30	
5,	Completion of 1 st year pre monsoon season monitoring	10	40	
6.	Initiation of 2^{nd} year post monsoon season monitoring	5	45	
7.	Completion of 2 nd year post monsoon season monitoring	. 10	55	
8.	Initiation of 2 nd year pre-monsoon season monitoring	5	60	
9.	Completion of 2 nd year pre-monsoon season monitoring	10	70	
10.	Submission of Draft Final Report	20	90	
11.	11. Acceptance of Final Report		, 100	

However, if a different schedule of payment is necessary then kindly indicate accordingly in the ToR for which we can then take necessary approvals within the sanctioned amount (Rs. 20 Lakhs).

Also, once all the paper work is done, a meeting can be planned to detail out the activities. We look forward for long and fruitful support and inputs.

Thanks,

Best Regards,

Pranav

P.S. Following is the link of the previous report submitted to NMCG. Although, it is in the public domain, NMCG has request not to circulate it as it is still the draft.

http://nmog.nic.in/writereaddata/fileupload/NMCGNEERI%20Ganga%20Report.pdf

Dr. Pranav Nagarnaik

डॉ. प्रणव नगरनाईक

Scientist

ট সানিক

Water Technology and Management Division

जल प्रौदयोगिकी एवं प्रबंधक प्रभाग

CSIR - National Environmental Engineering Research Institute

सीएसआईआर - राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान

NAGPUR - 440020, INDIA

आधार्तर - १९,००५०' भारप

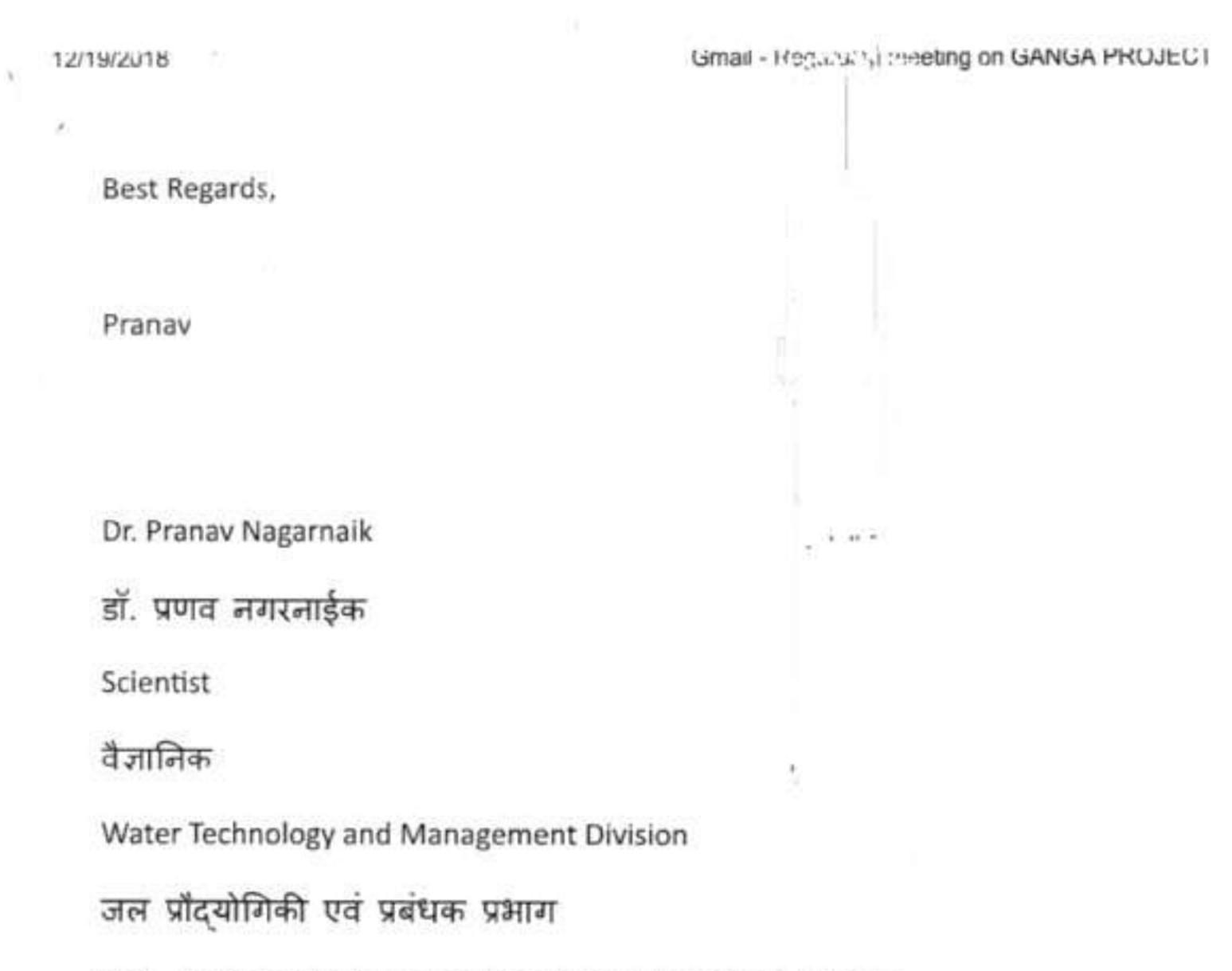
(M) +91 779 888 9056

From: Pranav Nagarnaik [mail.o:p_nagarnaik@neeri.iiis.in; Sent: 20 November 2017.09:58 -To: 'rosinha41@gmail.com'; 'psingh.civ@tbhu.ac.in' Cc: 'Rakesh Kumar'; 'director@neeri.res.in'; 'k_khaimar@neeri.res.in' Subject: RE: Regarding meeting on GANGA PROJECT

Dear Prof. Sinha and Prof. Singh,

As mentioned in the earlier mail by Dr. Krishna, Kindly find attached the copy of the presentation f.r your references. The slide contains only subcomponents related to Chemical aspects of the project "Detailed study to understand the non-putrefying property of river Ganga in both water and sediment". The details shall be discussed during the meeting.

Looking forward towards a fruitful discussion.



CSIR - National Environmental Engineering Research Institute

सीएसआईआर - राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान

NAGPUR - 440020, INDIA

नागपुर - ४४००२०, भारत

(M) +91 779 888 9056

From: k_khaimar@neeri.res.in [mailto:k_khaimar@neeri.res.in] Sent: 17 November 2017 14:22 To: rcsinha41@gmail.com; psingh.civ@itbhu.ac.in Cc: Pranav Nagarnaik; Sunii Kawale; Rakesh Kumar; cirector@neeri.res.in; k_khaimar@neeri.res.in Subject: Regarding meeting on GANGA PROJECT

Dear Prof. Sinha and Prof. Singh,

[Quoted text hidden]

https://mail.com/mail/u/02ik=09h3e40h3h&view=nt&search=all&nermmsnid=msn-f%3A15845935196666400735&simpl=msn-f%3A1584593 4/4