

Technology Bhavan
New Mehrauli Road
New Delhi- 110 016
Dated: 13.03.2019

ORDER

Sub: Financial assistance for the Consortium Mode Proposal under the Indian Heritage in Digital Space (IHDS) of Interdisciplinary Cyber Physical Systems (ICPS) Programme of the Department of Science & Technology (DST), GOI, New Delhi.

PI: Prof. Santanu Chaudhury, Director, Indian Institute of Technology (IIT)-Jodhpur, NH 65, Surpura Bypass Rd, Karwar, Rajasthan.

Sanction of the President is hereby accorded for the Consortium mode proposals under the Indian Heritage in Digital Space (IHDS) of ICPS Programme of DST consisting of 17 R&D projects at a total cost of ₹. 1275.551 Lakhs (Rupees Twelve Crore Seventy Five Lakh Fifty Five Thousand One Hundred only) i.e. ₹. 534.900 Lakhs (Rupees Five Crore Thirty Four Lakh Nine Thousand only) under non-recurring head and ₹. 740.651 Lakhs (Rupees Seven Crore Forty Lakh Sixty Five Thousand One Hundred only) under recurring head to Indian Institute of Technology (IIT)-Jodhpur, Rajasthan for a duration of 36 months. Year wise break-up of the recurring grant of ₹. 740.651 Lakhs to all the 17 R&D projects is given below and the break-up of each R&D projects is given at Annexure-B.

Sl No	PI, Affiliation & Project Title	Budget (Rupees in Lakhs)			
		1 st year	2 nd year	3 rd year	Total
1.	PI: Dr. Bhabatosh Chand, ISI Kolkata Digital Restoration and Reconstruction of Indian Heritage Artefacts with Focus on Murals, Manuscripts and Sculptures using Big Data Technology	12.2	12.2	11.064	35.464
2.	PI: Dr. Chetan Arora, IIT-Delhi Generating and Rendering Virtual Models of Indian Heritage Archaeological Sites from Head Mounted and Drone Mounted Cameras	14.88	14.88	15.74	45.5
3.	PI: Dr. Siddhartha Chaudhuri, IIT-Mumbai Recreating Digital Heritage in Augmented Realty	6	6	6.36	18.36
4.	PI: Dr. S Indu, DTU Delhi Development of frame work for imaging, restoring and archiving inscription and manuscript	6.64	5.94	6.347	18.927
5.	PI: Dr. S.C. Bose, CEERI-Pilani Development of Technologies for Environmental Audio and Aroma Digitization and Recreation for Indian Heritage Sites	16.6	14.6	14.39	45.59
6.	PI: Dr. M.B.Rajani, IISc-Bangalore Historical water systems in the extended landscape of Malaprabha River Valley	10.4	10.15	8.62	29.17

R. Sharmy

Contd./-

7.	PI: Dr. Sukumar Nandi, IIT-Guwahati Archiving, Modelling and Visualization of the Eco-Cultural Heritage of the Majuli River island of Assam	16.7	16.7	16.1	49.5
	Dr. Rajib Kumar Bhattacharya, Tezpur University	7.9	6.9	7.37	22.17
8.	PI: Dr. Shiva Ji, Mizoram University Creating Digital Heritage of Representative Architectural Marvels from Each State of North East India	13.2	13.2	13.06	39.46
9.	PI: Dr. Prof. Bharath Shekar, IIT-Mumbai Digital reconstruction of ancient Indian engineering via machine learning	13.73	13.53	14.564	41.824
10.	PI: Dr. Anindya Sinha, IISc-Bangalore Early fusion music: Cross-cultural musical exchanges in colonial India from the late 18th to the early 20th century	12.8	11.1	12.04	35.94
11.	PI: Dr. Avinash Sharma, IIIT-Hyderabad Computational Imaging and Visualization of Traditional Indian Dance Performances	11.3	11.3	12.24	34.84
12.	PI: Dr. Sundaresh, CSIR-NIO-Goa Relocating underwater archaeological structures off Dwarka to generate data for digitization	29.8	24.8	25.1	79.7
13.	PI: Dr. Subodh Kumar, IIT-Delhi Virtual immersion in under water sites	30.518	18.568	19.514	68.6
14.	PI: Prof. Subhasis Chaudhuri, IIT-Mumbai Haptic Rendering of Underwater Digital Heritage	21.42	11.22	12.166	44.806
15.	PI: Prof. Rajagopalan A. N, IIT-Madras Underwater Image Processing and Computer Vision	10.2	9.7	10.56	30.46
16.	PI: Dr. Uma Mudenagudi, KLET University. Crowdsourcing Framework for Digital Archiving and Presentation of Cultural Heritage	13.8	13.8	13.74	41.34
17.	PI: Prof. Santanu Chaudhury, Indian Institute of Technology (IIT)-Jodhpur. IHDS Co-ordination Project	20	20	19	59
	Total	268.088	234.588	237.975	740.651

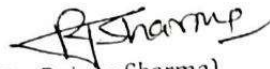
2. The sanction of the President is also accorded to the release of **Rs. 1,70,00,000/- (Rupees One Crore Seventy Lakh only)** being the first installment of grant under "General Component" for implementation of the above mentioned project. Indian Institute of Technology (IIT)-Jodhpur, in turn shall release the 1st installment to each project to the component institutes as mentioned against each project and as per details given in the **Annexure-C** within seven days from the date of receipt of funds from DST as per the bank details for electronic transfer of funds through RTGS.

R. Sharma

Contd./-

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- Dr. Bhabatosh Chanda, Professor, Electronic & communication science unit, ISI, 203, B.T.Road, Kolkata, 700108.
- The Registrar, Indian Institute of Technology-Delhi (IIT-D), Hauz Khas, New Delhi-110016.
- Dr. Chetan Arora, Associate Professor, IIT Delhi, Hauz Khas, New Delhi-110016.
- Registrar, Indian Institute of Technology (IIT)-Bombay, Powai, Mumbai-400 076, Maharashtra.
- Dr. Siddhartha Chaudhuri, Institute. Chair Assistant Professor, Department of Computer Science and Engineering, Indian Institute of Technology (IIT)-Bombay, Powai, Mumbai-400 076, Maharashtra.
- Registrar, Delhi Technological University (DTU), Bawana Rd, Delhi Technological University, Shahbad Daulatpur Village, Rohini, Delhi, 110042.
- Dr. S Indu, Associate Professor, Delhi Technological University (DTU), Bawana Rd, Delhi Technological University, Shahbad Daulatpur Village, Rohini, Delhi, 110042.
- Director, Central Electronics Engineering Research Institute, Pilani, Rajasthan 333031.
- Dr. S.C. Bose, Chief Scientist, CSIR- Central Electronics Engineering Research Institute, Pilani, Rajasthan 333031.
- Registrar, Indian Institute of Science (IISc) Campus, Bengaluru, 560012, Karnataka.
- Dr. M.B.Rajani, Assistant Professor, Indian Institute of Science (IISc) Campus, Bengaluru, 560012.
- Director, Indian Institute of Technology (IIT) Guwahati, Guwahati- 781039.
- Dr. Sukumar Nandi, Professor, Centre for Linguistic Science and Technology Guwahati, Indian Institute of Technology (IIT) Guwahati, Guwahati- 781039, Assam.
- Registrar, Tezpur University, Napaam, Tezpur, Assam 784028
- Dr. Rajib Kumar Bhattacharjya, Tezpur University, Napaam, Tezpur, Assam 784028
- Registrar, Mizoram University, Aizawl, Mizoram 796004.
- Dr. Shiva Ji, Assistant Professor, Mizoram University, Aizawl 796004, India.
- Dr. Prof. Bharath Shekar, Assistant Professor, Department of Earth Sciences, Indian Institute of Technology (IIT)-Bombai, Powai, Mumbai-400 076, Maharashtra.
- Dr. Anindya Sinha, Professor, Indian Institute of Science (IISc) Campus, Bengaluru, 560012, Karnataka.
- Director, International Institute of Information Technology (IIIT) DLF Building, Professor CR Rao Rd, Gachibowli, Hyderabad, Telangana 500032.
- Dr. Avinash Sharma, Assistant Professor, 2nd floor, kohli Research Block, International Institute of Information Technology (IIIT) DLF Building, Professor CR Rao Rd, Gachibowli, Hyderabad, Telangana 500032.
- Director, CSIR-National Institute of oceanography, Goa, Dona Paula, Goa 403004.
- Dr. Sundaresh, Principal Technical Officer, Marine Archaeology Unit, CSIR-National Institute of oceanography, Goa, Dona Paula, Goa 403004.
- Dr. Subodh Kumar, Professor, Indian Institute of Technology-Delhi (IIT-D), Hauz Khas, New Delhi-110016.
- Dr. Subhasis Chaudhuri, Professor, Department Of Electrical Eng, Indian Institute of Technology (IIT)-Bombai, Powai, Mumbai-400 076, Maharashtra.
- Registrar, Indian Institute of Technology (IIT)-Madras, Chennai-600 036, Tamil Nadu.
- Dr. Rajagopalan A. N., Professor, Dept. of Electrical Engineering, Indian Institute of Technology (IIT)-Madras, Chennai-600 036, Tamil Nadu.
- Registrar, KLE Technological University, BVB campus, Hubballi -580031, Karnataka
- Dr. Uma Mudenagudi, Professor, School of Electronics Engineering, KLE Technological University, BVB campus, Hubballi -580031, Karnataka.
- Dr. ICPS, DST.
- action folder.


(Dr. Rajeev Sharma)
Scientist E

DST/ICPS/IHDS/2018 (General)
Government of India
Ministry of Science & Technology
Department of Science & Technology

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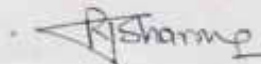
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Prashant

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3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
4. Indian Institute of Technology (IIT)-Jodhpur (the grantee organization) will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division after closure of every financial year i.e. 31st of March every year, till completion of the project. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS. The sanction of the above amount is subject to terms and conditions as contained in the **Annexure-A**.
5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
6. The grant-in-aid being released is subject to the condition that
- a) a transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant;
 - b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
7. ***"The grantee organization (IIT-Jodhpur) will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. www.bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure / Utilization Certificate for considering subsequent release of Grant/ Closure of Project accounts".***
8. ***"Grantee Institute should also follow Rule 230 (17) of GFR, 2017 concerning reservation of SC/ST/OBC, if applicable."***
9. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
10. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency.
11. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

 R. Sharma

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12. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

13. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

14. The expenditure involved is debitable to Demand No.84, Department of Science & Technology for the year 2018-19:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.200	:	Assistance to Other Scientific Bodies (Minor Head)
69	:	Research & Development (S&T)
69.00.31	:	Grants-in-Aid General for the year 2018-19 (Plan)
(Previous:3425.60.200.63.01.31-Super Computing Facility & Capacity Building)(ICPS)		

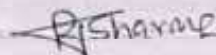
15. The amount of **Rs. 1,70,00,000/- (Rupees One Crore Seventy Lakh only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to Director, Indian Institute of Technology (IIT)-Jodhpur, Rajasthan through RTGS in Account No: **50200007479915**, HDFC Bank Ltd, IFSC Code: **HDFC0000142**, MICR Code : **342240002**.

16. These Consortium Mode Proposal under the Indian Heritage in Digital Space (IHDS) of ICPS-DST, being a multi-institutional networked project, the start date of the project shall be six months from the of receipt of funds from DST i.e. after completion of the project staff recruitment, procurement of equipment etc. However, completion of the above activities or 6 months whichever is earlier shall be construed as the start date of the project.

17. As per Rule 234 of GFR 2017, this sanction has been entered at S.No.99 in the register of grants maintained in the Division.

18. This issues with the concurrence of IFD vide their concurrence diary No.C/5855/IFD/2018-2019 dated 12.03.2019.

19. It is certified that all the Utilization Certificate in regard of all schemes/programmes/projects, present and previous pertaining to the institute have been received and no UC is pending against the organization as per the details in the PFMS also.


(Dr. Rajeev Sharma)
Scientist E

The Pay & Accounts Officer
Department of Science & Technology
New Delhi -110 016.


Copy for information and necessary action:

1. Cash Section (3 copies) for preparing the bill and remitting the amount to the above grantee.
2. Accounts Section, DST, New Delhi.
3. IFD, DST, New Delhi.
4. Director of audit (CW&M-II) AGCR Building, IP Estate, New Delhi.
5. Prof. Santanu Chaudhury, Director, Indian Institute of Technology (IIT)-Jodhpur, NH 65, Surpura Bypass Rd, Karwar, Rajasthan.
6. Director, Indian Statistical Institute (ISI), Plot No. 203, Barrackpore Trunk Road, Baranagar, Kolkata, West Bengal 700108.

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7. Dr. Bhabatosh Chanda, Professor, Electronic & communication science unit, ISI, 203, B.T.Road, Kolkata, 700108.
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35. Dr. Uma Mudenagudi, Professor, School of Electronics Engineering, KLE Technological University, BVB campus, Hubballi -580031, Karnataka.
36. Head, ICPS, DST.
37. Sanction folder.


(Dr. Rajeev Sharma)
Scientist E

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5.	Overheads	2.00	2.00	1.00	5.00
	Grand Total	16.6	14.6	14.39	45.59

PROPOSAL -6

Project title : Historical water systems in the extended landscape of Malaprabha River Valley
(PI: Dr. M.B.Rajani, Assistant Professor, Indian Institute of Science Campus, Bengaluru, 560012)
(Co-PI : Dr. SrikumarM. Menon, Indian Institute of Science Campus, Bengaluru, 560012).

Sl.N o	Item	IIT-Bombay			
		1 st Year	2 nd Year	3 rd year	Total
1.	Project staff JRF-01 @ Rs. 25,000/- + 30% HRA for 2 years & @ Rs. 28,000/- + 30% HRA for 3 rd year as SRF	3.90	3.90	4.37	12.17
2	Domestic Travel	0.50	0.50	0.50	1.50
3	Consumables	0.50	0.25	0.25	1.00
4	Contingency	0.50	0.50	0.50	1.50
5	Others	4.00	4.00	2.00	10.00
	Total	9.4	9.15	7.62	26.17
6	Overheads	1.00	1.00	1.00	3.00
	Grand Total	10.4	10.15	8.62	29.17

PROPOSAL -7

Project title : Archiving, Modelling and Visualization of the Eco-Cultural Heritage of the Majuli River island of Assam (PI: Dr. Sukumar Nandi, Professor, Centre for Linguistic Science and Technology Guwahati, Indian Institute of Technology Guwahati, Guwahati- 781039) (Co-PI : Dr. Rajib Kumar Bhattacharjya, Dr. Samit Bhattacharya & Dr. Parasmoni Dutta).

Sl.N o	Item	IIT-Guwahati				Tezpur University			
		1 st Year	2 nd Year	3 rd year	Total	1 st year	2 nd year	3 rd year	Total
1.	Project staff JRF-03 to IIT-G & JRF-01 to TU	11.70	11.70	13.10	36.50	3.90	3.90	4.37	12.17
2	Travel	0.50	0.50	0.50	1.50	0.50	0.50	0.50	1.50
3	Consumables	2.00	2.00	1.00	5.00	1.00	1.00	1.00	3.00
4	Contingency	0.50	0.50	0.50	1.50	0.50	0.50	0.50	1.50
	Total	14.7	14.7	15.1	44.5	5.9	5.9	6.37	18.17
5	Overheads	2.00	2.00	1.00	5.00	2.00	1.00	1.00	4.00
	Grand Total	16.7	16.7	16.1	49.5	7.9	6.9	7.37	22.17

... Contd/-

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