DST/WOS-B/HN-19/2021- Kanchan (G)

Government of India
Ministry of Science & Technology
Department of Science & Technology
(KIRAN Division)

Technology Bhavan, New Delhi-110016 Dated: 24.09.2021

ORDER

Sub:-Financial assistance for the project titled "NIR-Sensitive GD 203 based materials as triggers for photoreaction of photosensitive materials for biomedical application"

PI: Dr. Kanchan Upadhyay, Bhilai Institute of Technology, Durg - 491001.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of Rs.33,46,800/- (Rupees Thirty Three Lac Forty Six Thousand Eight Hundred Only) for a duration of three years. The detailed breakup of the grant for General & Capital Components is given below:-

General Components- Rs.33,46,800/-

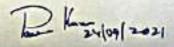
Capital Assets-

Rs. Nil/-

Total-

Rs.33,46,800/-

-		141	2 nd year	3 rd year	Total
S.	Proposed Budget Head	1" year	2 year	3 year	10(2)
No.		-			
	Recurring (Capital Assets)	_			Nil/-
1.	Equipment				Nil/-
Λ	TOTAL				1110
Recu	rring (General)				
Recu	rring-l (Manpower)			- ** ***	22.07.0007
	Fellowship for Ph.D @ Rs.55,000/PM +HRA @ 16% for 36 months	7,65,600/-	7,65,600/-	7,65,600/-	22,96,800/-
Recu	rring-II (Consumables & Travel)				
	-Consumables:Rs.4,50,000/- Raw materials, Growing cell lines, testing anticancer ability, chemicals etc. Other cost: Rs.3,00,000/- (for out sourcing work and characterization) -Travel: Rs.75,000/- (Capping for 3 years)	2,75,000/-	2,75,000/-	2,75,000/-	8,25,000/-
Recur	ring-III (Contingency)		25.000/	25 000/	75,000/-
	Miscellaneous Expenses	25,000/-	25,000/-	25,000/-	/5,000/-
Recur	ring-IV (Overhead Charges)				
	Overhead Charges	50,000/-	50,000/-	50,000/-	1,50,000/-
В	Total	11,15,600/	11,15,600/	11,15,600/	33,46,800/-
	Grand Total (A+B)	11,15,600/	11,15,600/	11,15,600/	33,46,800/



- The sanction of the President is also accorded to the release of Rs. 11,15,600/- (Rupees 2. The sanction of the President is also accorded to the Finance Officer, Bhilai Institute of Eleven Lac Fifteen Thousand Six Hundred Only) to the Finance Officer, Bhilai Institute of Eleven Lac Fifteen Thousand Six Hundred Only) to the above Technology, Durg - 491001 being the first installment of grant for implementation of the above mentioned project.
- While providing operational flexibility among various sub head under head Recurring-II, it should be ensured that not more than Rs.75,000/- should be spent for Travel.
- 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.
- The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. 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.
- 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.
- The grant-in-aid being released is subject to the condition that 7.
- As per Rule 149 of GFR, 2017, the Goods (Consumables/equipment) available in GeM portal are to be procured mandatorily online through GeM only.
- 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.
- "GI is advised to start using EAT module and next release will be made only after mapping and following EAT modules by the Grantee Institution".
- "The grantee organization 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. 2019-20 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."

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- 9. (a). DST reserves sole rights on the assets 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.
- (b). DST reserves rights to close the project activity any time based on the review of progress of the project.
- (c). A prior intimation to DST by grantee is must before leaving the country for attending conference/availing any short term fellowship abroad during the project tenure.
- 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.
- Due acknowledgment 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.
- Failure to comply with the terms and condition of the Bond (if applicable) will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
- 13. The targeted deliverables along with the timelines as proposed in the project are annexed herewith. The subsequent releases will be made on the basis of "Targets Vs Achievement".
- The expenditure involved is dubitable to Demand No.88, Department of Science & Technology for the year 2021-22:

3425	Other Scientific Research (Major Head)
60	Others (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
68	Science and Technology Institutional and Human Capacity Building (Sub Head)
01	Disha Programme for Women in Science
68.01.31	Grants-in-aid General for the year 2021-22 (Voted)
	(Previous: Disha Programme for Women in Science 3425.60.200.55.01.31)

The amount of Rs.11,15,600/- (Rupees Eleven Lac Fifteen Thousand Six Hundred Only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the Finance Officer, Bhilai Institute of technology, Durg - 491001. The bank details for electronic transfer of funds through RTGS are given below:-

Institution Account Name	Bhilai Institute of Technology, Durg
Saving Bank Account Number	32471126372
Name of Bank	State Bank of India
Branch Name	Alka Departmental Store Sector - 10 Bhilai
RTGS/IFSC Code	SBIN0006942
MICR Code	490002007

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As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 353 in the register of

grants maintained in the Division for the scheme (KIRAN: WOS-B). This issues with the concurrence of IFD Vide their Concurrence Dy. No. C/2181/IFD 2021-

17. 22 Dated: 23.09.2021.

(Pawan Kumar) Scientist-'C' 011-26590290

To The Pay and Accounts Officer, Department of Science & Technology, New Delhi.

Copy for information and necessary action to:-

Cash Section (3 copies) for making the payment to the granteE.

Account Section.

Director of Audit, (Scientific Deptt), AGCR Building, New Delhi - 110 002. Sanction Folder

5. Head (KIRAN)

Dr. Kanchan Upadhyay, Bhilai Institute of Technology, Durg - 491001.

Dr. Raunak Kumar Tamrakar (Mentor), Bhilai Institute of Technology, Durg - 491001. 7.

The Finance Officer, Bhilai Institute of Technology, Durg - 491001. 8.

> (Pawan Kumar) Scientist-'C' 011-26590290



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No.CSVTU/TEQIP-III/2020/CRP-IV/ 3759

Bhilai, Date: 07/01/2020

To,

Principals/Directors,

All Affiliated Engineering Institutes of CSVTU, Bhilai

Subject: List of Approved Research Projects with sanctioned amount under "Collaborative Research Project" Phase-IV with guidelines and Forms under TEQIP-III.

Dear Sir/Madam,

A list of approved Research Projects with sanctioned amount and Title of the project of "Collaborative Research Project" Phase-IV with detailed guidelines and Forms under TEQIP-III is hereby attached with list of Principal Investigator's (PI) and Co-PI's from various affiliated institutes of CSVTU, Bhilai.

All respective PI's and Co-PI's are informed to follow the guidelines strictly and utilize the funds accordingly. The detail guidelines will be available on the CSVTU institute website for smooth functioning of the research work.

Enclosures:

- List of projects with Title, PI, Co-PI Name & affiliation with sanctioned amount.
- Guidelines for under "Collaborative Research Project" & Forms under "Collaborative Research Project"

TEQIP Coordinator

List of Approved Colloborative Research Project Summary with Santioned Amount for Phase-IV under TEQIP-III

CRP Sanction No.	Name of PI and Affiliation	Title of Research Project	Name of Co-PI and Affiliation	Total Approved Grant(INR)
		PHASE-I	V	
CSVTU/CRP/I EQIP-III/100, Date 28/12/2019	Mr.Keshav Kori, CSIT Durg	Online questionbank gathering system to gather questions according to the subjects for the university students	Mr.V.P.Singh, CEC Durg Mr.Dheeraj Kumar Ghaghre, CSIT Durg	300000/-
	Mr. Dheeraj Kumar Ghaghre, CSIT Durg	Cost effective exam paper generation system & distribution across all exam centres digitally through artificial intelligence with maintain high security & confidentialness	Mr.V.P.Singh, CEC Durg Mr.Keshav Kori, CSIT Durg	300000/-
CSVTU/CRP/T EQIP-111/102, Date 28/12/2019	Mrs.Vinni Sharma, BIT Durg	Use of Binaural Auditory Beats for reducing attention Deficit Disorder in Autistic children & analysing the effectiveness	Mr.Dewanand Bhonsle, SSTC -SSGI Bhilai	200000/-

TEQIP-III Coordinator CSVTU, Bhilai

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)

राज्य योजना आयोग, छत्तीसगढ़ योजना भवन, नार्थ ब्लॉक, कैपिटल कॉम्प्लेक्स, सेक्टर–19 नवा रायपुर, अटल नगर

टेलीफॅक्स : 0771—2511223 ईमेल: ms.cgspc@nic.in

//स्वीकृति आदेश//

नवा रायपुर अटल नगर, दिनांक 2 5/03/2022 क्रमांक 7.0.8./F2(SS)-04/रायोआ/2020: छत्तीसगढ़ शासन, वित्त निर्देश 30/2016 द्वारा प्रत्यायोजित अधिकारों का उपयोग करते हुये एतद द्वारा Dr. Ashok Chandra, Associate Professor, BIT Durg को उनके द्वारा नवाचार प्रस्ताव— "Introduction of smart warehouses for post harvest problems of chhattisgarh farmers." हेतु राशि रू. 5.00 लाख (पांच लाख रूपये मात्र) को दो किरतों में प्रदाय की रवीकृति प्रदान की जाती है।

2/ उक्त स्वीकृति "विशेषज्ञ सह मूल्यांकन समिति" की बैठक दिनांक 15/03/2022 में प्रदत्त अनुमोदन के आधार पर जारी की जा रही है।

3/ निम्नानुसार मदवार राशि रू. 5.00 लाख प्रदाय की स्वीकृति प्रदाय की जाती है –

Cost Estimate for Innovation Project:

S. No.	Item	Rate	Details	Estimated cost (Rs.) as on date
I.	Mud house	Rs. 350/-sqm	Total area one house 4x4=16 sqm ² Total cost=16x350x12=5600x12=67200/-	67,200
2.	Humidity and temperature equipment	2,000/-	Total house=12 12x2000=24000/-	24,000
3.	Field work cost	75,000		75,000
4.	RCC Boundary	100/.092 sqm	Total area of boudary wall=174 m ² Total cost=189130/-	1,89,130
5.	Testing and other cost	50,000/-		50,000
6.	Cost of App	30,000/-		30,000
7.	Expert Honorarium	40,000/-		40,000
8.	Miscellaneous exp.	24,670/-		24,670
	Louis Control		Total:	5,00,000

उपरोक्तानुसार कार्य हेतु प्रथम किश्त के रूप में लागत का 50 प्रतिशत यथा रू. 2.50 लाख प्रथम किश्त के रूप में प्रदाय की स्वीकृति प्रदान की जाती है। उक्त कार्य हेतु 08 माह की अवधि निर्धारित की गई है। उक्त अवधि की गणना प्रथम किश्त जारी दिनांक से की जावेगी।

- 4/ उपरोक्तानुसार व्यय मांग संख्या—31 योजना, आर्थिक एवं सांख्यिकी विभाग से संबंधित व्यय योजना क्रमांक 6474—नवाचारों का बौद्विक संपदा अधिकार के अंतर्गत #10 व्यवसायिक सेवाओं हेतु अदायगियां, उपशीर्ष 003— परागर्श सेवाएं मद से विकलनीय होगी।
- 5/ राज्य योजना आयोग द्वारा योजना अंतर्गत ज्ञापन क्रमांक 1674 दिनांक 08/12/2020 द्वारा जारी "नवाचारों के अध्ययन व प्रोत्साहन हेतु दिशा—निर्देश" तथा MoU अंतर्गत निहित समस्त नियम एवं शर्तों का पूर्ण रूप से पालन करना अनिवार्य होगा।
- 6/ मुख्य नियम व शर्ते -
- 6.1 / स्वीकृत राशि में से प्रथम किश्त के रूप में प्रस्ताव की 50 प्रतिशत राशि प्रदाय की जावेगी। उक्त राशि संस्था प्रमुख को जारी की जावेगी। जिसे उनके द्वारा Principal Investigator को जारी किया जा सकेगा।
- 6.2 / प्रथम अंतरिम रिपोर्ट, व्यय का विवरण, निर्धारित प्रारूप में उपयोगिता प्रमाण पत्र तथा कार्य की प्रगति संतोषजनक होने संबंधी प्रमाण पत्र संस्था प्रमुख द्वारा प्रस्तुत करने के बाद द्वितीय एवं अंतिम किश्त की राशि जारी की जावेगी।

6.3 / नवाचार की द्वापट रिपोर्ट तथा क्रियाशील प्रोटोटाईंप की जानकारी को "विशेषड़ा सह मूल्यांकन समिति" के समक्ष प्रस्तुत करना होगा। समिति द्वारा दिये गये सुझाव अनुरूप अतिम रिपोर्ट मय संक्षेपिका तथा क्रियाशील प्रोटोटाईंप के संबंध में समिति द्वारा दिये गये सुझाव का समावेश करते हुये हार्ड काफी तथा सॉफ्ट कापी राज्य योजना आयोग को संस्था प्रमुख द्वारा प्रस्तुत किया जावेगा। 6.4/ फाईनल रिपोर्ट के साथ सामग्रीवार व्यय का विस्तृत विवरण (मय बिल/वाउचर) तथा उपयोगित राशि

का उपयोगिता प्रमाण पत्र निर्धारित प्रारूप में दिया जाना होगा ।

6.5 / अनुपर्योगित राशि को राज्य योजना आयोग को NEFT/RTGS/Demand Draft (सदस्य सचिव, राज्य योजना आयोग के नाम सें) के माध्यम से वापिस किया जाना होगा।

6.6/ नवाचार हेतु प्रदाय राशि से क्रय की गई अनावर्ती स्वरूप की सामग्रियों को संबंधित शासकीय संस्था/विभाग को जमा करना होगा जिसकी स्टाक एन्ट्री संस्था/विभाग द्वारा की जाकर उसकी पावती फाईनल रिपोर्ट के साथ प्रदाय करनी होगी। गैर सरकारी संस्था द्वारा अनावर्ती स्वरूप की सामग्री को राज्य योजना आयोग के भण्डार शाखा में फाईनल रिपोर्ट प्रदाय के समय जमा करना होगा।

6.7/ सामग्री का क्रय भण्डार क्रय नियमों का पालन करते हुये करना होगा।

6.8 / प्रदत्त स्वीकृति अंतर्गत जारी राशि का उपयोग स्वीकृत परियोजना अनुसार घटकवार निर्धारित सीमा में सुनिश्चित किया जाना होगा।

6.9/ निर्धारित उद्देश्य एवं कार्य क्षेत्र अनुसार पूर्ण कार्य संपादन सुनिश्चित न होने पर प्रदायित राशि को वापिस किया जाना होगा।

6.10 / नवाचार संबंध में हुई प्रगति व अन्य जानकारी को राज्य योजना आयोग द्वारा चाहे जाने पर उपलब्ध करवाया जाना आवश्यक होगा।

> (अनुप कुमेल श्रीवारतव) सदस्य सचिव

राज्य योजना आयोग, छत्तीसगढ

पु. क्रमांक: 70.9.. / F2(SS)-04 / रायोआ / अ.प्र. / 2022 नवा रायपुर अटल नगर दिनांक 2.5/03 / 2022 प्रतिलिपि :--

निज सचिव, माननीय उपाध्यक्ष, राज्य योजना आयोग, छत्तीसगढ।

निज सहायक, माननीय सदस्य, राज्य योजना आयोग, छत्तीसगढ़।

सचिव, छ.ग. शासन, वित्त विभाग, मंत्रालय महानदी भवन, नवा रायपुर अटल नगर।

 अवर सचिव, छ.ग. शासन, योजना, आर्थिक एवं सांख्यिकी विभाग, मंत्रालय महानदी भवन, नवा रायपुर अटल नगर।

Principal, BIT Durg को सूचनार्थ एवं आवश्यक कार्यवाही हेत्।

6/ Dr Ashok Chandra, Associate Professor, BIT Durg को सूचनार्ध एवं आवश्यक कार्यवाही हेतु प्रेषित।

7. संयुक्त संचालक, वित्त, राज्य योजना आयोग को। संबंधित अध्ययनकर्ता से प्राप्त बँक संबंधी विवरण अनुसार किश्त प्रदाय की कार्यवाही सुनिश्चित करें, लेखा अद्यतन रखें तथा राशि प्राप्ति दिनांक व प्रकार से शोध शाखा. राज्य योजना आयोग को अवगत करावे।

राज्य योजना आयोग, छत्तीसगढ़

MEMORANDUM OF UNDERSTANDING

BETWEEN

Chhattisgarh State Planning Commission, GoCG (SPC)

and

Bhilai Institute of Technology, Dung Ce. (1)

This Memorandum of Understanding (MoU) is entered into as of 24 March 2022, 2022, by and between the Chhattisgarh State Planning Commission, Government of Chhattisgarh hereinafter referred as SPC for short and Bhilai Inchitule of Technology (MoU) institute's Name) hereinafter referred as Institute as per provisions in para 8 of the guidelines (for promotion of Innovation) issued vide SPC order no. 1674 Date 08-12-2020.

The partners have decided to enter into this MoU because they:

RECOGNIZE the mutual interest in the fields of innovation and dissemination of knowledge

RECOGNIZE the importance of SPC's role in promoting innovation and its contribution to development of the State

Name) within its field of expertise



Private and Confidential

This MoU will enable the parties to:

FOSTER collaboration in promoting innovation and facilitating the innovator.

HARNESSING the innovative capacity of the institute and advance research and innovation

The parties hereby agree to work in collaboration according to the terms and conditions set out in the articles following hereunder.

ARTICLE I: BACKGROUND

This MoU will be executed as part of Collaboration, infrastructure sharing for promoting innovation in the State and to develop innovation eco-system in the State.

ARTICLE II: SCOPE OF THE COLLABORATION

The general purpose of this MoU is to extend the infrastructural facilities including laboratories of the Child Institute of Technology, Dury Institute and facilitate the innovators for prototype development and successful completion of his/her Innovation project and may include the following general terms and conditions;

- i. Both parties agree that the grant-in-Aid provided by the State Planning Commission will be regulated in accordance with the provisions contained in the components of the proposal submitted and approved by SPC and guidelines issued by SPC in this regard.
- ii. Consultancy and research activities at laboratories available in the institute would be extended to the innovator and shall maintain confidentiality of the research work carried out at the institute for the project funded by the SPC.
- iii. Exchange of scholarly information including indices to theses/dissertation, books and magazines on relevant subjects (subject to copyright rules).





- Extend invitations for attending scholarly and technical meetings, National and Private and Confidential International Conferences, held by the respective parties. W.
 - The Institute will provide necessary infrastructure / space for working in furtherance of v. the innovation to the innovator.
 - Purchase of hardware/software/equipment etc. shall be made as per the prevailing purchase rules of the state government and procedures followed by the institute. vi.
 - While working on the proposal, no liability shall arise for the SPC or State Government.
 - The financial support by SPC shall primarily cover expenses as per the approved proposal.
 - The account for actual expenditure incurred under the proposal shall be maintained by the Institute and same shall be forwarded to SPC on a regular quarterly basis from the DX. date of receipt of grant.
 - Works related to innovation shall start within a period of one months from the date of X. actual release of first installment of innovation Grant.
 - The grant shall be released in installments depending on the progress of the work in XI. furtherance of innovation. The balance amount shall be released after the submission of the (i) utilization Certificate (ii) Statement of Account (iii) copy of original bills/vouchers and progress made in terms of envisaged deliverables by the institute. The UC and SE shall be signed and stamped by competent authority of the institute.
 - The financial assistance/grant shall only be utilized for project work.
 - xiii. Unspent portion of the assistance shall be refunded to the Office of the SPC. Separate accounts of each innovation grant shall be maintained and the same be subjected to test check by the Office of the SPC

Private and Confidential

- xiv. In the event of violation of any of the terms and conditions of this MoU, the organization/institute will have to refund the entire amount sanctioned, to the Office of the SPG on demand or such part thereof along with penal interest as applicable.
- xv. Assets acquired out of the funds released shall not be disposed off without obtaining the prior approval of the Office of the SPC.
- xvi. The institute shall adhere to the budget plan.
- xvii. The progress of the innovation shall be monitored by the Office of the SPC and the Institute.
- xviii. All Intellectual Property generated under the SPC funded project would be sole property of the SPC and any disclosure or licensing of the same shall be done after taking No Objection Certificate from the SPC.

ARTICLE III: THE AGREEMENT

- 2.1 At State Planning Commission (SPC), this MoU shall be administered by, Member Secretary,

 SPC or his / her authorized representative. At Bhilai Indi hyle of Technology (Institute

 Name) this MoU shall be administered by Dr. M.K. Gupta (Principal) his / her authorized representative.
- 2.2 The parties may enter into specific written agreements under authority of this MoU to clarify and define the nature, extent and terms of operation for the proposed collaborations, including availing facilities of laboratory and intellectual property ownership issues. However, it is made clear that this MoU does not authorize the institute to make any financial commitment, unless it is supported by specific approval of the competent authority of SPC.

ARTICLE IV: GENERAL TERMS

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MoU is not intended to, and does not create any right, benefit, or trust responsibility, of MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and MoU is not intended to, and does not create any right, benefit, or trust responsibility, and mouth intended to, and does not create any right, benefit, or trust responsibility, and mouth intended to, and does not create any right, benefit, or trust responsibility, and mouth intended to, and does not create any right, benefit, or trust responsibility, and mouth intended to any right, benefit, or trust responsibility, and mouth intended to any right, benefit, or trust responsibility, and trust responsibility.

nothing in this MoU obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties or between one part and a third party unless expressly agreed by independent covenant or order/ agreement.

33 The activities of this MoU must be carried out in accordance with appropriate laws and regulations existing in India.

3.4 In all the disputes under this MoU, shall be resolved through the process of arbitration and the Vice Chairman, State Planning Commission (SPC) shall be the sole arbitrator, whose decision shall be final and binding on both the parties.

PC	e principal)
Signed By	Signed By ()
Signature	Signature 2
Date//2022	Date 24 / 03 /2022

Official Stamp

6

Official Stamp



Principal

Bhilai Institute of Technology
(Seth Balkrishan Memorial)
Bhilai House, Durg - 491001
Chhattisgarh, INDIA



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-111/2022/ 6834

Bhilai, Date: 19/04/8022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/54, Dated 05/09/2019, the Collaborative Research Project (CRP) titled "Effect of application of epoxy coating on structural steel connection" was approved for grant-in-aid of INR 2,00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator : Dr. Mohan Kumar Gupta

Name of the Institute : BIT durg

Name of Co-Principal Investigator : Ms. Smita Gupta

Name of the Institute : UTD Bhilai

Name of Co-Principal Investigator : Ms. Shraddha Sharma

Name of the Institute : BIT Durg

Coordinator TEQIP-III



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, मिलाई

CRP Senction Number	Title of Research Project	Name of Pt and Affiliation	Name of Co-Pt and Affiliation	Total Approved Grant (INR)
CSVTU/CRP/ TEQIP-BI/41 Date 17/08/2019	Assessment of environmental footprint of building from life cycle perspective in context of Indian building sector	Ms Sonam Vaidya UTD-CSVTU Bhilai	Mr Manish Sakhlecha SSIPMT Raspur Mithd, Pravej Alam SSIPMT Raspur	2.50,000
CSVTU/CRP/ TEQIP-III/42 Date 17/08/2019	0.7V resistant solar dryer for food a processing	Dr. Anarag Verms CSIT Dung	Dr. P.K. Gapta UTD-CSVTU Bhilai Dr. Sanjay Agrawai IGNOU New Della	3,00,000
CSVTU/CRP/ TECBP-III/43 Date 17/08/2019	Descrippment of control strategy for human arm motion imitation system for industrial robot programming	Dr. Abbishek Jha, UTD-CSVTU Bbilai	Mr Sanjay G. Sakhurwada RCET fibilat. Dr Shital S. Childarwar VNIT Nagpur	3,00,000

	Pi	HASE-III		
CSVTU/CRP/ TEQO-81/44 Date 05/09/2015	Design and Implementation of a micro grid awargy management system	Or Shimpy Rathan Goyal SSTC bhilai	Or. Shashwati Ray BIT Dury Or. Mahesh Singh SSTC bhilai	380000
CSVTU/CI07/ TEQIP-91/45 Date 05/09/2019	Development of a low cost solar dryer for forest produce in hastar region	Mr. Manisk Kumar BIT OURG	Mr. H.R. Chendrakar CST Durg Mr. Vikrant Tapan NMIXC DAV Polytechnic Bastar	150000
CSVTU/CRP/ TEQIP-III/46 Date 05/09/2018	Design of hybrid dielectric resonator antenna	Dr. Dipali suren CCET Bisha	Mr. Nilesh Tamboli LCET Bilaspur	210000
CSVTU/CRP/ TEQIP-III/47 Date 05/09/2019	Design of Rain water horvesting systems for different site condition	Dr. S.K. Jaiswal BIT OURG.	Mr Santosh Kumar, SSGI Bhilai Mr Cauray Savena, BIT Durg	180000
CSVTU/CRP/ TEOXP-III/48 Date 05/09/2019	Assessment of critical ground water potential zones of liberan bosin using integrated approach of geospetial techniques	Veibher Prokashrao Deshpande BIT Kaipur	Manish Kumar Sielia UTD CSVTU Bhilai	230000

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI श्चनीसगढ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTL/TEQ1P-H1/2019/CRP-Final/3252

Bhilas, Date: 03/10/2019

List of Approved Collaborative Research Project Summary with Sanctioned Amount (Phase-I, II & III) under TEQIP-III

CRP Sanction Number	Title of Research Project	Name of PLand Affiliation	Name of Co-P) and Affiliation	Total Approved Grant (INR
	P	HASE-I		
CSVTU/CRP/ TEQR-III/01 Date 06/06/2019	"The use of omologies for affective lonowledge modeling of distributed databases and information ratiseval"	Mr. Suman komar Sisamkar CSiT Durg	Dr. K.P. Supreethi JNTU Hyderahud	3,00,000
CSVTU/CNP/ TEQIP-III/02 Date 06/06/2019	"Investigation of the effect of swirl pipe on pressure drop in slurry flow in pipelines"	Mr. R.K. Rathore CSIT Durg	Dr. Abbishek Bia UTD CSVTU Bhilai	3,00,000
CSVTU/CRP/ TEQ:P-III/03 Date 06/06/2019	"Functionalized 2D materials"	Dr. Mohan Laf Vanna SSGI Bhilai	Dr. B. keshav Rao SSGI Bhilai Dr. Anil Kumur Choobe CCET Bhilai	2,30,000
CSVTU/CRP/ TEO/P-01/D4 Date D6/06/2019	" Assessment of Mine tailing Treatment Efficiency of mignities grown in anaerobic, aenibic and anoxic any innument"	Dr. Biju Prava Sahariah UTD CSVTU Bhilai	Dr. Tanisfece Chatterjee RET Raipur	2,95,000
CSVTU/CRP/ TECSP-UI/OS Oafe 06/06/2019	" Green Synthesis of chitman based antimicrobial bio-nanocomposite film using MMT as strength unhancer and AgNPs as nanofillar for food packaging applications"	De Manisha Agrawal RCET Bhilai	Mr.Thaneshwar Sahu, UTO-CSVTU, Bhilai Dr. Dharam Pal NJT Raipur	3,00,000
CSVTU/CRP/ TEQSP-III/06 Date 06/06/2019	"Fabrication and Analysis of Hybrid composite Reinforced with Fiber and particulate Both"	Mr. Ajay Kumar Verma SSGI Bbilai	Dr. Manoj Venna UTD-CSVTU Bhilai	2,89,000
CSVTU/CRP/ TEGIP-III/07 Date D6/06/2019	** Conditioning Monitoring of Power Transformers using Dissolved Gas*	Mr. Rahul Pandsy SSGI Bhitai	Dr. Naveen Goel SSGI Bhilai Dr. S.P. shiikia BIT Dorg	2,14,000

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)

Newai, P.O-Newai, Distr. Durg (Chhattisgarh) - 49/107

Ph. No.: 0788-2200062. Fax No.: 0788-2445020. Website: www.esvto.ac.in. E-mail: registrarii/csvto.ac.in



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

CRP Sanction Number	Title of Research Project	Name of H and Attiliation	Name of Co-Ft and Affiliation	Total Approved Grant JINR
CSV1U/CRP/ TEQIP-IE/24 Date 17/68/2019	Determination of paraquat pesticides in vegetable and water sample using silver non-particles at raipur district	Dr. Shilpa Sharma BCET Bhilai	Dr. Rakesh Singh Dhundhel SSIPMT Raipur	1,50,000
CSVTU/CRP/ TEGIP HI/25 Date 17/08/2019	Key burriers in the growth of engineering education in obtainingarh- state in flatzy kano and TiSM integrated approach		Dr. Bhagwati Charan Patel SSGI Bhitai	- 1,00,000
CSVTU/CRP/ TEQIP-01/26 Date 17/06/2019	Effect of magnetic field on ion nemport and dielectric properties of solid nano composite polymer electrolytes	Dr. Homendra Das Safrii SSGI Bhilai	Dr. Acti Verma RCET Bhilai Dr. Mohan L Verma SSGI Bhilai	2,00,000
CSVTU/CRP/ TEQIP-III/27 Date 17/08/2019	Smart infigation system using fo'l	Mr. Prablias Kontar Gopta CSG Durg	Dr. Nagendra Tripathi BH Durg	1,00,000
CSVTU/CR9/ TEQIP-III/28 Date: 17/08/2019	Synthesis and nanometer characterization of CdZrS thin film	Dr. Ritu Strivantava SSEC Bhilai	Dr. Shubhas Chandra Shrivastava RCET Bhilai	2,00,000
CSVTU/CRP/ TEGIP-III/29 Date 17/08/2019	Investigation and optimization of process parameter of wire EDM on nickel based supuralloy.	Dv. Abbijeet Gungallý SSTC-8SGI Bhilai	Dr. Lokesb singh RSR Ethilai Mr. Kunat Dewangan SSEC Bhilai	2,80,000
ESVTU/CRP/ TEQ:P-III/30 Date 17/06/2019	Development of functionally graded material and roubi numerial roots for machining process.	EX: Lokesh singk RSR Bhilai	Dr. Albhija Gonguly SSTC-SSGI Bhilai	Z,80,000
CSVTU/CRP/ TEQIP-H/31 Date 17/08/2019	Studies of luminescence properties of nare earth doped and codoped phosphora	Dr. Manmeet Kaur Bhuie SSTC-SSGI Bhilai	Mr. Prashant Kumar Sahu BT Dung Dr. Minn Akash Pateria SSTC SSGEBhilai	2,00,000
CSVTU/CRF/ TEQIP-III/32 Date 17/08/2019	Design testing and evaluation of a movel-transplanting mechanism in manual rice trasplanter for improved performance	Mr. Vikky Kumhar SSTC Bhilai	Dr. Masun Verma UTD-CSVTU, Bisilai Deepek Mahapatra BRSM Raigur	2,86,000





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CRP Santtion Number	Title of Research Project.	Name of PL and Affiliation	Name of Co-Pl and Affiliation	Total Approved Grant (INR)
CSVTO/CRP/ TECHP-HI/48 Date: 05/09/2019	To facilitated the sales of roral products and ares of Chhattisgarit through a commerce using data mining, data science and soft companing techniques.	Adnya Tiwan BiT Raipur	Dr. Jyothi Kilai BIT DUKG	120000
CSVTU/CRP/T EQIP- III/500mm 05/09/2019	tXx-elopment of efficient biosorption technology for removing cadmium from industrial effluents	Dr. Sangreto Sahu BIT Raipur	Dr. Madhurina pundey BIT Dury	100000
CSVTU/CRP/ TEQIP-HI/S1 Date 05/09/2019	Effect on properties on gio-polymer contents with particle replacement of fine aggregate by enother stone	Deepmala pundey BUT Respur	Mr. Tostan singli Rathour SSSPMT Raipur Dr. R.k. Mishra BIT Raipur	180000
CSVTU/CRP/ TEQIP-HI/52 Date 05/09/2018	Avenues of sustainable tourism in Chhattingarh	Dr. Souren siekar SSTC Mulai	Binnajest Bhatachsejee SSTC Bhilai Abbinhek Chakarborty BIT Duna	100000
CSVTU/CRP/ TEQSP-III/ST Date 05/09/2019	Development of single phase low cost power analyser	Dr. Mittiflesh singh KITE Raipur	Ritish Dissan RIT RAPPUR Dr. Saji, T. Chackii Polytechnic dung	125000
CSVTU/CRP/ TECHP-III/Sa Date 05/09/2019	Effect of application of epony- coating on structural steel connection	Dr. Muhan Kumpr Gupta BIT durg	Ms. Smita Gupta UTD Bhilai Ms. Shraddha sharma BIT Dure	200000
CSVTU/CIGP/ TEQIP-10/55 Date 05/09/2019	Line start permanent magnet motors for fature electric vehicle	Dr. Arkit Dwitedi CEC hilaspur	Pritta Cripta REC Dury	150000
CNTU/CRP/ TECHP-HI/56 Date 03/09/2019	Determination of organophosphosous pesticides in vegitable and water sample at abhorpur area	Dr Rakesh Song Ohmuthef: SSIPWT Raipur	De Shilpa Shorma RCET Raipur	150000
CSVTU/CRP/ TEQIP-III/57 Date 05/09/2015	design and fabrication of line cost electric two wheeler	Mr And Chakrowarti SSIPM7 Raipur	Monish Kumar Mishra BT Raipur	250000
CSVTU/CRP/ TEQIP-B/SB Date 05/09/2019	Design and Development of a cost effective phasor measurement unit for real time munitoring of amost power system	Dr. Shadmati Roy BiT dung	Dr. Shiropy Railian Goyal ASTC bhilai Mr. Gouran Shunkar BIT Darg	200000

TEQIP-III, Coordinator

Newsy, P.O-News, Distr. Durg (Chluttisgach) - 491107

New at, P.O-Newis, Dian, Durg (Chhattisgach) - 491 107 CSVTU Bhilai (C.O.)
Ph. No.: 0788-2200062, Fax Nov: 0788-2445020, Website: www.csstu.ac.in. E-mail: registre/ijcsstu.ac.in



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CRP Santtion Number	Title of Research Project.	Name of PL and Affiliation	Name of Co-Pl and Affiliation	Total Approved Grant (INR)
CSVTO/CRP/ TECHP-HI/48 Date: 05/09/2019	To facilitated the sales of roral products and ares of Chhattisgarit through a commerce using data mining, data science and soft companing techniques.	Adnya Tiwan BiT Raipur	Dr. Jyothi Kilai BIT DUKG	120000
CSVTU/CRP/T EQIP- III/500mm 05/09/2019	tXx-elopment of efficient biosorption technology for removing cadmium from industrial effluents	Dr. Sangreto Sahu BIT Raipur	Dr. Madhurina pundey BIT Dury	100000
CSVTU/CRP/ TEQIP-HI/S1 Date 05/09/2019	Effect on properties on gio-polymer contents with particle replacement of fine aggregate by enother stone	Deepmala pundey BUT Respur	Mr. Tostan singli Rathour SSSPMT Raipur Dr. R.k. Mishra BIT Raipur	180000
CSVTU/CRP/ TEQIP-HI/52 Date 05/09/2018	Avenues of sustainable tourism in Chhattingarh	Dr. Souren siekar SSTC Mulai	Binnajest Bhatachsejee SSTC Bhilai Abbinhek Chakarborty BIT Duna	100000
CSVTU/CRP/ TEQSP-III/ST Date 05/09/2019	Development of single phase low cost power analyser	Dr. Mittiflesh singh KITE Raipur	Ritish Dissan RIT RAPPUR Dr. Saji, T. Chackii Polytechnic dung	125000
CSVTU/CRP/ TECHP-III/Sa Date 05/09/2019	Effect of application of epony- coating on structural steel connection	Dr. Muhan Kumpr Gupta BIT durg	Ms. Smita Gupta UTD Bhilai Ms. Shraddha sharma BIT Dure	200000
CSVTU/CIGP/ TEQIP-10/55 Date 05/09/2019	Line start permanent magnet motors for fature electric vehicle	Dr. Arkit Dwitedi CEC hilaspur	Pritta Cripta REC Dury	150000
CNTU/CRP/ TECHP-HI/56 Date 03/09/2019	Determination of organophosphosous pesticides in vegitable and water sample at abhorpur area	Dr Rakesh Song Ohmuthef: SSIPWT Raipur	De Shilpa Shorma RCET Raipur	150000
CSVTU/CRP/ TEQIP-III/57 Date 05/09/2015	design and fabrication of line cost electric two wheeler	Mr And Chakrowarti SSIPM7 Raipur	Monish Kumar Mishra BT Raipur	250000
CSVTU/CRP/ TEQIP-B/SB Date 05/09/2019	Design and Development of a cost effective phasor measurement unit for real time munitoring of amost power system	Dr. Shadmati Roy BiT dung	Dr. Shiropy Railian Goyal ASTC bhilai Mr. Gouran Shunkar BIT Darg	200000

TEQIP-III, Coordinator

Newsy, P.O-News, Distr. Durg (Chluttisgach) - 491107

New at, P.O-Newis, Dian, Durg (Chhattisgach) - 491 107 CSVTU Bhilai (C.O.)
Ph. No.: 0788-2200062, Fax Nov: 0788-2445020, Website: www.csstu.ac.in. E-mail: registre/ijcsstu.ac.in



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CRP Sanction Number Title of Research Project		Name of PL and Affiliation	Name of Co-≠1 and Affiliation	Total Approved Grant (INR	
CSVTU/CRP/ TEQIP-III/78 Date 05/09/2019	Design and fabrication of OTA-C load pole cancellation based compact low-pass olliptic filter for bimignal sunsor application.	Pratible Verms UTD CSVTU Obilet	Dr. Rajkemar Jhapte SSGF Bhilai Produnt Dwivedi UTD.CSVTU Bhilai	260000	
CSVTU/CRP/ 1EQIP-si/79 Dwe 05/09/2019	Sector field scaled application on inguistic information for decision making in a multi-dimensional algorithm	Dr. Dillip Kumur Dash CCET Biillei	RadheshyamPanula SSGI-SSTC Dr. Ritesh Dush CCET Bhilai	10000G	
CSVTU/CRP/ TEQEP-III/80 Date 05/09/2018	Experimental and numerical simulation for the effect of Rheological parameters along with emison prediction in a pipeline	Mr. Rahul Mishra SSEC Bhilat	Dr. Swapnil Juni SSEC Bhilai Vaibhay singh rhakur REC Bhilai	200000	
CSVTU/CRP/ TEQIP-III/81 Date 05/09/2019	Natiscomposite polymer electrolytes synthesis ion conduction and device fabrication	Dr. Angesh Kumar Chandra SSIPMT Haipur	Dr. Aliik Bhatt BCET Bhilai	150000	
CSVTU/CRP/ TEQIP III/82 Date D5/09/2019	Environmental pollution reduction from spark ignition engine automobiles using copper nane-particles conted on catalytic converter as a catalysi.	Dr.T. Rama Rao HTT Raigus	S.S. Drepak RCET Repur Dr. Mikesh Thakur NMDC DAV Polytechnic	150000	
CSVTU/CRP/ TEQUE-HI/AS Date 05/09/2018	IOT based automation of electrical and electronics devices in college academic building using aurilino and wifi module	Abhirub shikla BIT Raipur	Mr. Ritesh Diwgs RIT Kaipur	150000	
SVTU/CRP/ Luminescence behaviour of rare racth activated ScA1204 and ZrO2 nano-phosphors and their application for deformation duction technique with possibilities of their integration with MEMS device		Mr. Manish Kumar Miabra BIT Raipur	Tirargeet Suchdey SSIPMT Raipur	200000	
CSVTD/CRP/ Dual Capability Smart braille god for		Dr. Devanand thosle SSTC Bhilai	Dr. S.P. SHUKLA BET dury	150000	
CSVTU/CRRV TEQIP-III/86 Date 05/09/2019	20 nanostructure based field effect transistor as gas sensor, an-anim modeling	Swati Verma SSGI Bbitai	Dr. Arun Kumar BIT Durg Dr. B. keshav Rao SSGI Bhilai	150000	

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

CRP Sanction Number	Title of Research Project	Name of Pl and Affiliation	Name of Co-PI and Affiliation	Total Approved Grant (INR
CSVTU/CRP/ TEQIP-III/16 Date 17/05/2019	Mechanoluminescence and thermo luminance studies of rare earth activated phosphors for display and mechanical seasons	Dr. Vikas Dubey, BIT RAIPUR	Dr. Rausak Kunur Tamrakar, BiT Durg Mr. Ritung Chondrakar, NAIDC DAV Polytochnic	2,00,000
CSVTU/CRP/ TEQHP-HI/17 Date 17/08/2015	Alechanoluminescence for crack, detection in cementitions structure	Dr. Shri Ram Krishna Shanna. BIT RAIPLIK	Mr.Manish Kumar Sioha UTD-CSVIU, Bhilai	2,50,000
CSVTU/CRP/ TEQIP HI/18 Date 17/08/2019	Health risk assembent and remediation technique for usanium containamination in ground water of durg and near by district chilattisgarh	Dr. Samesh Kumar Sar BH. Dung	Ov. Prodeep Kinnar Glosh KEC Blim	2,00,000
CSVTU/CRP/ TEQIP-III/19 Data 17/08/2019	Mutual coupling reduction in planner compact antenna for mid band 3G wireless application	Mr. Upendra Soni SSH [®] MT Raipur	Mr. Vidhata Poddar, CEC Bilaspor, Mr. Robert Mark, GGU Bilaspor	2,50,000
CSYTU/CRP/ TEQIP-III/20 Date 17/08/7019	Design and development of cluster haled smart agriculture system using machine learning and loT	Dr. Ritesh Dash CCET Bhilai	Dr. G.C. Bismal BiT Darg Dr. Dillip Kumar Dash, CCET Bhitai	250,000
CSVTLI/CSP/ TEQIP-III/21 Date L7/0W/7019	Development of manually driven solar juice cari	Prof. Shngi Tiwari SSGI Bhilai	Prof.Rajnish Prasad Pandey, CSIT Durg DR, R.N. Patal NIT Raique	2.50,000
CSVTU/CRP/ TEQIP-81/22 Size 17/06/2819	A novel high entropy alloys with amposite microstructure	Dr. Anil kumur BiT Durg	Mr. Rajesh Kumar,CSIT Durg Mr.Ritaraj Chandrakor, NMDC DAV Polytochnic	2,00,000
CSVTU/CRP/ TEQIP-HI/23 Oute 17/08/2019	Electroluminescence studies of SeAl204: Eu21, Dy31 thin films of EL based device applications.	Dr. Dhirendra Singh Kahatri, SSEPART Raipur	Dr. Vikas Dubey BIT Raigur Dr. Shubra Minhra SSIPMT Raigur	2,00,000

TEQIP-III, Coordinator CSVTU Bhilai (C.O.)

Newai, P.O-Newoi, Distr. Darg (Chluttisgarh) -49) 107

Ph. No.: 0788-2200062, Fax No.: 0788-2445020, Website: www.covtu.ac.in, E-mail: registrar@covtu.ac.in.

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छत्तीसगढ़ विज्ञान एवं प्रौद्योगिकी परिषद Chhattisgarh Council of Science & Technology

M. I.G. 25, Indravati Colony, Raipur, (C. G.) 492 001
Phone: 0771 2434569; FAX: 0771 2434093; Email: dqccost@gmail.com

CCOST/MRP/2015

Sanction Order

To
Principal
Bhilai Institute of Technology,
Durg (CG)

Sub: Sanction of Mini Research Project entitled "Implementation og laboratory scale miero grid incorporating renewable energy source".

Ref: Mini Research Project proposal of Dr. S. P. Shukla, Professor, Department of Electrical Engineering, Bhilai Institute of Technology, Bhilai House Durg (CG).

Project Investigator: Dr. S. P. Shukla, Professor, Department of Electrical Engineering, Bhilai Institute of Technology, Bhilai House Durg (CG).

Sanction is hereby accorded for Rs.4,95,000/- (Rs. Four Lakhs ninety five thousand) only for two years duration. The amount is being released on the following terms and conditions:-

The Mini research projects must be pertaining to Socio-Economic Development of the State.

- In line with the Council's objectives it is imperative to support only such Research & Development Mini Research projects which are relevant to the achievement of specific objectives of the Council as follows:
 - "To identify and utilize areas of science and technology for
 - a. Achieving socio-economic development of the state and
 - b. To achieve the objectives of tackling the problems particularly of backwardness, unemployment and poverty in the rural areas, and among the under-privileged section of the society".
- 2. Mini research project will be sanctioned to permanent faculty member(s).
- Six copies of the project proposal to be submitted to Council in the prescribed Performa.



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/ 6803

Bhilai, Date: 19/03/RORR

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/14, Dated 17/08/2019, the Collaborative Research Project (CRP) titled "Design and development of parallel frame work for measurement of heat distributioning in metallic sheets" was approved for grant-in-aid of INR 3, 00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Dr. Manisha Sharma

Name of the Institute

BIT DURG

Name of Co-Principal Investigator

Dr. Rajesh Tiwari

Name of the Institute

SSGI, Bhilai

Name of Co-Principal Investigator

Dr. Kamal K Mehta

Name of the Institute

SSGI, Bhilai

Coordinator TEQIP-III
CSVTU, Bhilai



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-10/2022/ 6360

Bhilat Date: 19 09 8022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/86, Dated 05/09/2019, the Collaborative Research Project (CRP) titled "2D nanostructure based field effect transistor as gas sensor, ab-initio modelling" was approved for grant-in-aid of INR 1,50,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Ballin.

Name of Principal Investigator

Name of the Institute

Name of Co-Principal Investigator

Name of the Institute

Name of Co-Principal Investigator

Name of the Institute

Ms. Swati Vermis

SSGI BHILLI

Dr. Arun Kamur

BIT Durg

Dr. B. Keshav Rao

SSYC Bhillai

Coordinator TEQUE-III



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

CRP Sanction Number	Title of Research Project	Name of Pl and Affiliation	Name of Co-PI and Affiliation	Total Approved Grant (INR)
CSVTU/CRP/ TEQIP-III/69 Date 05/09/2019	Design and fabrication and analysis of semi auto risc transplamer	Er, Sanjay kumar Sahu BIT Raipur	Pradeep Kumar sahu SSIPMT Raipur	250000
CSVTU/CRP/ TEQIP-HI/70 Date 05/09/2019	Design of wearable textile anteena for WLAN and bluetooth application	Mr. Jaydeep Dewangan BIT Raipur	Mr.Dilip Tamboli SRIT Raipur	250000
CSVTU/CRP/ TEQEP-III/71 Date 05/09/2019	Stitulation of biochemical effect using EM field of Diagons is and treatment of disease	Ms, Rashmi Mishra BIT Raipar	Dilip Tamboli SRIT Raipur Ms. Arpita Shukla BIT Raipur	225000
CSVTU/CRP/ TEQIP-III/72 Date 05/09/2019	Design and implementation of image retrieval system for tracksmark/ logo image for registration	Latika Pinjarkar SSGI BHILAI	Dr. Manisha sharma BIT Durg Dr.Smita selot SSGI Bhilai	150000
CSVTU/CRP/ TEQIP-III/73 Date 05/09/2019	Design and development of a novel biosensor for detection of relevant biological analite in biological fluid	Prashant Dwivedi UTD CSVTU BHILAI	Dr. Rekha trivedi SSTC Bhilai Ms. Ncha Mishra UTD CSVTU BHILAI	225000
CSVTU/CRP/ TEQIP-III/74 Date 05/09/2019	Measurement of leaf area and narrogen contain of betel leaf using image processing technique	Amar Kumar Dej BIT Durg	Abhishek Misal UTD CSVTU BHilai	180000
CSVTU/CRP/ TEQIP-III/75 Date 05/09/2019	An assessment of molecular mechanics of novel formulated drug delivery system for skin targeting	Dr Ashish Patel Guest Faculty UTD CSVIT. Bhilai	Dr Chanchal Deep Kaur Shri Rawatpera Sarkar Institute of Pharmacy Bhilai Dr Kshiriz Varma Goest Faculty LTD CSVTU Bhilai	290000
CSVTU/CRP/ TEQIP-III/76 Date 05/09/2019	Design of digital signature scheme and their application	Dr.Manoj Kumar Chande SSIPMT,Raipur	Dr. Rajlaxmi Gupta, SSGI Bhilai Dr.S.D.Diwan, GEC Raipur	130000
SVTU/CRP/ TEQIP-III/77 Date 05/09/2019	An algorithm to reduce successive interference in multipath advance wireless channel	Dr.Heinlata Sinha, SSIPMT Raipur	Mr. Md.Khaja Mohiddin, BIT RAIPUR Mr. Sumit Komar Roy, SSIPMT Raipur	150000

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)

Newai, P.O-Newai, Disti. Durg (Chhartisgarh) - 491107.

Ph No : 0788-2200062, Fas No.: 0788-2115020, Website: www.cavtu.ac.in, E-mail. registrar@cavtu.ac.in
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CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/6822

Bhilai, Date: 19 04 2022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/34, Dated 17/08/2019, the Collaborative Research Project (CRP) titled "Performance enhancement of micro inverter solar PV power generation using passive filters" was approved for grant-in-aid of INR 3,00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Dr. Naveen Goel

Name of the Institute

SSGI Bhilai

Name of Co-Principal Investigator

Ms. Ekta Tamrakar

Name of the Institute

BIT Durg

:

Name of Co-Principal Investigator

Mr. Rahul Pandey

Name of the Institute

SSTC-SSGI Bhilai

Coordinator TEQIP-III
CSVTU, Bhilai



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/6800

Bhilai, Date: 19/04/2022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/10, Dated 06/06/2019, the Collaborative Research Project (CRP) titled "Development of Low Cost Single Family Solar Cooker" was approved for grant-in-aid of INR 2,25,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator :

Mr. Abhishek Misal

Name of the Institute

UTD CSVTU Bhilai

Name of Co-Principal Investigator

Dr. Amar Kumar Dev

Name of the Institute

BIT Durg

Name of Co-Principal Investigator

Dr. Sanjay Agrawal

Name of the Institute

IGNOU New Delhi

Coordinator TEQIP-III



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2019/CRP-II/ 2190

Bhilai, Date 17/08/2019

To,

Principals/Directors.

All Affiliated Engineering Institutes of CSVTU, Bhilai

Subject: List of Approved Collaborative Research Projects under Collaborative Research Scheme of TEQIP-III

Dear Sir/Madam,

Based on the oral presentation of Collaborative Research Proposals by the Principal Investigator (PI) and Co-PI (in the presence of competitive authority/ Evaluation Committee) from various affiliated institutes of CSVTU, Bhilai, please find the attached list of approved Research Projects.

All respective PIs and Co-PIs (First Co-PI) are requested to open a joint account immediately and submit the account details to TEQIP-III CELL, CSVTU Bhilai at the earliest so that funds may be transferred accordingly. The detail guidelines will be available on the CSVTU website for smooth functioning of the research work.

> Dr. Pankaj Kumar TEQIP Coordinator CSVTU, Bhilai

Enclosure: 1. Guidelines for Collaborative Research

Newai, P.O. Newai, Bhilai, Distt. Durg (Chhattisgarh) - 494107

Ph. No.: 0788 - 2200062, Fax: 0788-2445020, Website: www.csvtn.ac.in, E-mail: registrars/csvtn.ac.in

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CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगड स्वामी विवेधानंड काजीकी निश्वविद्यालय, भिनार

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Halas, Dave 405/00/2019

with Sanctioned Amount (Phase-I, II & III) under TEQIP-III List of Approved Collaborative Research Project Summary

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GALTACE	Dr. Abbishek Ita LTD ESVTI (Biblio)	Mr. R.K. Rudwin CST Diogr	"Investigation of the effect of and pipe on pressure drop in durry flow in applicies"	Date Date (EQIP-III/02)
Section 1	Dr N.P. Suproctin JNN Hylembyl	Mr. Suman Sumor Swanskar CND Durp	The use of natiologies for affactive knowledge modeling of distributed databases and information reviews.	12/06/2019 12/06/2019 12/06/2019
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TEQIP-III, Coordinator CSVTU BAILLI (C.G.)



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI दर्गमगद न्यामी विवेकानर नकनीकी विश्वविद्यालय, जिलाई

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TEQIP-IIL Coordinator



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI उनीमगड म्बामी विवेकानर बक्तीकी विश्वविद्यालय, मिनाइ

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CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY BHILAI खतीसगढ़ स्वामी विवेधानंद नकतीकी विश्वविद्यालय , भिलाई

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ndra Dr. Ratu Shervettova SSEC Bhillia SSEC Bhillia SSEC Bhillia SSEC Bhillia Mr. Hirodoshib Sangh Bhas SCCET Bhillia	ha Di. Arts Verrib RCLT Bhila Dr. Dharendra Singh Kahatri SSIPMT Haipar		name of Co-Pl and Affination

TEOIP-III Coordinator TEQIP-III, Coordinator CSVTU. Blabai



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-111/2022/6832

Bhilai, Date: 19104 2022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/49, Dated 05/09/2019, the Collaborative Research Project (CRP) titled "To facilitated the sales of rural products and arts of Chhattisgarh through e commerce using data mining, data science and soft computing techniques" was approved for grant-in-aid of INR 1,20,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Mr. Aditya Tiwari

Name of the Institute

BIT Raipur

Name of Co-Principal Investigator

Dr. Jyothi Pillai

Name of the Institute

BIT DURG

Name of Co-Principal Investigator

.

Name of the Institute

Coordinator TEQIP-III



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2019/CRP-II/ 2190

Bhilai, Date: 17/08/2019

To,

Principals/Directors,

All Affiliated Engineering Institutes of CSVTU, Bhilai

Subject: List of Approved Collaborative Research Projects under Collaborative Research
Scheme of TEQIP-III

Dear Sir/Madam,

Based on the oral presentation of Collaborative Research Proposals by the Principal Investigator (PI) and Co-PI (in the presence of competitive authority/ Evaluation Committee) from various affiliated institutes of CSVTU, Bhilai, please find the attached list of approved Research Projects.

All respective PIs and Co-PIs (First Co-PI) are requested to open a joint account immediately and submit the account details to TEQIP-III CELL, CSVTU Bhilai at the earliest so that funds may be transferred accordingly. The detail guidelines will be available on the CSVTU website for smooth functioning of the research work.

Dr. Pankaj Kumar Gupta TEQIP Coordinator CSVTU, Bhilai

Enclosure: 1. Guidelines for Collaborative Research

Newai, P.O. Newai, Bhilai, Distt. Durg (Chhattisgarh) - 491107 Ph. No.: 0788 - 2200062, Fax: 0788-2445020, Website: www.csvtu.ac.in, E-mail: registrar@csvtu.ac.in

The following Guidelines are recommended for the Principal Investigators and Co – Investigators in the Collaborative Research Projects

- 1. The institute where Principal Investigator is working becomes the **lead Institute.**
- 2. An Initial amount pertaining to 50% of the sanctioned and approved amount will be released to the Joint-account of the PI and first Co-PI.
- 3. In case, PI or Co-PI is leaving the institute, he/she shall be deemed to be withdrawn from the project.
- 4. PI's and Co-PI's are required to fill the Forms A to F and submit to TEQIP-III CSVTU whenever asked.
- 5. PI's and Co-PI's are required to submit Form A within 3 days after receiving the sanction letter.
- 6. PI's and Co-PI's need to be present at the time of Progress Evaluation-I conducted at TEQIP-III CSVTU Bhilai after 4 months from the date of start of the project.
- 7. The subsequent Instalments of the sanctioned Research grant will be released on satisfactory Performance in Progress Review-I and submission of Form B and Form D duly filled and signed.
- 8. Progress Review–II will be conducted after 8 Months for which PI's & Co-PI's need to be Present.
- 9. The final instalment will be released upon submission of Form C & D and satisfactory Performance in the Progress Review–II.
- 10. The Project should result in at least one publication (preferably in SCOPUS in the relevant journal at National /International level.
- 11. PI's and Co-PI's will be informed if there are any directions from NPIU or changes made by TEQIP-III CSVTU Bhilai relevant to Collaborative Research Scheme time to time and are to be abided in due course till the completion of TEQIP-III Project.
- 12. All non-consumables procured for the research project will automatically become the property of the lead institution after completion of the project.
- 13. Any deviation in the expenditure as defined in the project proposal is not accepted. In such case prior permission is necessary from the university. After obtaining necessary permission, funds should be utilized as per the revised guidelines. No deviation is accepted.
- 14. Any interest incurred should be deposited back to the university CSVTU Bhilai, TEQIP-III Account.
- 15. Unspent amount as per the proposal/ Guidelines of the TEQIP within the stipulated time should be deposited back to the university TEQIP account. (Along with Interest Incurred).
- 16. Any discrepancy with PIs/Co-PIs while implementing the project is to be brought to the notice of University authorities.
- 17. For any other matters, decision of university is final and binding.

Approved List of Collaborative Research Proposals under Phase-II

Project No.	Project Title	Principal Investigator & Affiliation	Co-Principal Investigator & Affiliation
		Name and Affiliation	Name and Affiliation
CRP-II/02	An ICT approach towards enhancing english speaking skills.	Dr. Seema Arora SSIPMT RAIPUR	Mr. Amrendra Kumar Singh, BIT Durg Dr. Madhu karma Durga Mahavidyalaya Raipur
CRP-II/04	A Novel approach to the synthesis of photosensitive non structure matrerial their characterization for utilization of solar energy in chhhattisgarh	Dr. Rajesh Lalwani BIT DURG	Dr. Devi Singh Raghuwanshi, SSTC,Bhilai Dr.Rubi Das , BIT DURG
CRP-II/06	Extraction of oil using pyrolysis reactor and its characterization	Mr.Jaysingh Gaharwar BIT DURG	Mr.Mahesh Kumar Dewangan , SSTC,Bhilai Mr. Deepak Mahapatra BRSM College Mungeli
CRP-II/09	Design and development of parallel frame work for measurement of heat distributioning metallic seeds.	Dr. Manisha Sharma BIT Durg	Mr.Rajesh Tiwari SSGI,Bhilai Dr. Kamal K mehta SSGI,Bhilai
CRP-II/10	Manufacturing and charactetrization of AA7075 alloy foam using calcium and magnesium carbonate as foaming agent	Mr.Nitish Kumar Singh RCET, BHILAI	Dr. P. K. Gupta, UTD ,CSVTU bhilai Mr. Ram krishna RCET-Bhilai
CRP-II/12	Mechanoluminescence and thermo luminance studies of rere earth activated phosphors for display ans mechanical sensors	Dr. Vikas Dubey, BIT RAIPUR	Dr. Anil Kumar. BIT DURG Mr.Rituraj Chandrakar, NMDC DAV Polytechnic, Dantewada
CRP-II/13	Mechanoluminescence for crack detection in cementitious structure	Dr. Shri Ram Krishna Sharma, BIT RAIPUR	Mr.Manish Kumar Sinha UTD-CSVTU, Bhilai
CRP-II/16	Health risk assesment and remediation technique for uranium containamination in ground water of durg and near by district chhattisgarh	Dr. Santosh Kumar Sar BIT Durg	Dr. Pradeep Kumar Ghosh KEC Bhiai
CRP-II/21	Mutual coupling reduction in planner compact antenna for mid band 5G wireless application	Mr. Upendra Soni SSIPMT Raipur	Mr. Vidhata Poddar, CEC Bilaspur, Mr.Robert Mark, GGU Bilaspur

Project No.	Project Title	Principal Investigator & Affiliation	Affiliation
		Name and Affiliation	Name and Affiliation
CRP-II/28	Development of manually driven solar juice cart	Prof. Shruti Tiwari SSGI Bhilai	Dr. P.K.Gupta, UTD ,CSVTU bhilai DR. R.N. Patel NIT Raipur
CRP-II/35	A novel high entropy alloys with composite microstructure	Dr. Anil Kumar BIT Durg	Dr. Vikas Dubey BIT Raipur Mr.Rituraj Chandrakar, NMDC DAV Polytechnic, Dantewada
CRP-II/36	Electroluminescence studies of SrAl2O4: Eu2+, Dy3+ thin films of EL based device applications.	Dr. Dhirendra Singh Kshatri, SSIPMT Raipur	Dr. Vikas Dubey BIT Raipur Dr. Shubra Mishra SSIPMT Raipur
CRP-II/37	Determination of paraquat pesticides in vegetable and water sample using silver non particles at raipur district	Dr. Shilpa Sharma RCET Bhilai	Dr. Rakesh Singh dhundhel SSIPMT Raipur
CRP-II/39	Key barriers in the growth of engineering education in chhattisgarh state :a fuzzy kano and TISM integrated approach	Mr.Naveen Jain SSIPMT Raipur	Dr. Bhagwati Charan Patel SSGI Bhilai
CRP-II/42	Effect of magnetic feild on ion transport and dielectric properties of solid nano composite polymer electrolytes	Dr. Homendra Das Sahu SSGI Bhilai	Dr. Arti Verma RCET Bhilai Dr. Mohan L Verma SSGI Bhilai
CRP-II/44	Smart irrigation system using IoT	Mr. Prabhas Kumar Gupta CSIT Durg	Dr. Nagendra Tripathi BIT Durg
CRP-II/47	Synthesis and nanometer characterization of CdZnS thin film	Dr. Ritu Shrivastava SSEC Bhilai	Dr. Shubhas Chandra Shrivastava RCET Bhilai
CRP-II/49	Invetigation and optimization of process parameter of wire EDM on nickel based superalloy.	Dr. Abhijeet Ganguly SSTC-SSGI Bhilai	Dr. Lokesh Singh RSR Bhilai Mr. Kunal Dewangan SSEC Bhilai
CRP-II/50	Development of functionally graded material and multi material tools for machining process	Dr. Lokesh Singh RSR Bhilai	Dr. Abhijit Ganguly SSTC-SSGI Bhilai
CRP-II/52	Studies of luminescence properties of rare earth doped and codoped phosphors	Dr. Manmeet Kaur Bhuie SSTC-SSGI Bhilai	Mr. Prashant Kumar Sahu BIT DURG Dr. Mimi Akash Pateria SSTC-SSGI Bhilai
CRP-II/54	Design testing and evaluation of a novel trasplanting mechanism in manual rice trasplanter for improved performance	Mr. Vikky Kumhar SSTC Bhilai	Dr. Manoj Verma UTD CSVTU, Bhilai Mr. Deepak Mahapatra BRSM Mungeli

Project No.	Project Title	Principal Investigator & Affiliation	Affiliation
OP 7 TO 1		Name and Affiliation	Name and Affiliation
CRP-II/56	Performance enhancement of microinverting solar PV power generation using passive filters	Dr. Naveen Goel SSGI Bhilai	Ms. Ekta Tamrakar BIT Durg, Mr.Rahul Pandey SSGI Bhilai
CRP-II/57	Design of solar based efficient hybrid electric vehicle	Mr.Rahul Baghel SSGI Bhilai	Mr. Harish Kumar Ghritlahre UTD- CSVTU Bhilai, Dr. R.N.Patel NIT Raipur
CRP-II/60	Smart bike device for automating a two wheeler vehicle crash detection using machine learing and internet of things	Dr. Siddhartha Choubey SSGI Bhilai	Dr. J.P. Patra SSIPMT Raipur Dr. Abha Choubey SSGI Bhilai
CRP-II/62	Opinion mining of tourism sector of india using machine learning algorithm from reviews collected through social media	Dr. Smita Selot SSTC Bhilai	Dr. Ani thomas BIT Durg Mr. Sreejit Panicker SSTC Bhilai
CRP-II/68	Production of ethanol biofuel and manure by utilizing different types of agro and animal waste	Mr.Manish Sakhlecha SSIPMT Raipur	Ms.Sushmita Gouraha UTD CSVTU-Bhilai Mr.Toshan Singh Rathour SSIPMT Raipur
CRP-II/70	Stabalization of expensive soil using Alkali activated fly ash	Dr. Subhlaksmi Tiwari CEC Bilaspur	Dr. Manoj Kumar Tiwari SSGI Bhilai Dr.Sandeep Chouksey NIT Raipur
CRP-II/71	Security analysis of digital signature scheme	Dr. Manju Sanghi RCET Bhilai	Mr.Sharda Charan Gupta CIPET Raipur
CRP-II/75	Assessment of environmental footprint of building from life cycle perspective in context of indian building sector	Ms.Jui Giri UTD-CSVTU Bhilai	Mr.Manish Sakhlecha SSIPMT Raipur Mohamad Pravej Alam SSIPMT Raipur
CRP-II/76	UV resistant solar dryer for food processing	Dr. Anurag Verma CSIT Durg	Dr. P.K. Gupta UTD-CSVTU Bhilai Dr. Sanjay Agrawal IGNOU New Delhi
CRP-II/77	Devlopment of control strategy for human arm motion imitation system for industrial robot programming	Dr.Abhishek Jha, UTD-CSVTU Bhilai	Mr.Sanjay G. Sakharwade RCET Bhilai, Dr.Shital S. Chiddarwar VNIT Nagpur



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/6844

Bhilai, Date: 19/04/2022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/64, Dated 05/09/2019, the Collaborative Research Project (CRP) titled "Fabrication of Safe Low Pressure Acetylene Generator for Gas Welders of Chhattisgarh Region" was approved for grant-in-aid of INR 1, 50,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Mr. Prem Shankar Sahu

Name of the Institute

BIT Durg

Name of Co-Principal Investigator

Mr. H.R. Chandrakar

Name of the Institute

CSIT Durg

:

Name of Co-Principal Investigator

Mr. Vikrant Tapas

Name of the Institute

NMDC DAV Polytechnic Bastar

Coordinator TEQIP-III



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

CRP Sanction Number	Title of Research Project	Affiliation Affiliation		Total Approved Grant (INR
CSVTU/CRP/ TEQIP-III/08 Date 06/06/2019	" Green synthesis and characterisation of Metallic Nanoparticles for Biomedical and Environmental Applications'	Dr. Sandhya Pillai CCET Bhilai	Mrs. Sumita Sengupta CSIT Bhilai	2,00,000
CSVTU/CRP/ TEQIP-III/09 Date 06/06/2019	"Determination of water Quality of Sheonath River due to major polluting streams around Durg City"	around Durg City" KEC BHILAI JNTU Hyderabad		3,00,000
CSVTU/CRP/ TEQIP-III/10 Date 06/06/2019	" Development of Low Cost single family solar cooker"	Dr. Pankaj Kumar Gupta UTD CSVTU Bhilai	Dr. Anurag Verma CSIT Durg Dr. Sanjay Agrawal, IGNOU	2,25,000
	P	HASE-II		
CSVTU/CRP/ TEQIP-III/11 Date 17/08/2019	An ICT approach towards enhancing english speaking skills.	Dr. Seema Arora SSIPMT RAIPUR	Mr. Amrendra Kumar Singh, BIT Durg Dr. Madhu karma Durga Mahavidyalaya Raipur	1.50,000
CSVTU/CRP/ TEQIP-III/12 Date 17/08/2019	A Novel approach to the synthesis of photosensitive non structure material their characterization for utilization of solar energy in Chhattisgarh	ch to the synthesis of Dr. Rajesh Lalwani Dr. Devi Singh Raghuwanshi, action for utilization Dr. Rajesh Lalwani Dr. Devi Singh Raghuwanshi, SSTC,Bhilai		2,00,000
CSVTU/CRP/ TEQIP:HI/13 Date 17/08/2019	Portif13 reactor and its characterization BIT DURG	Mr.Jaysingh Gaharwar BIT DURG	Dewangan , SSTC,Bhilai	3,00,000
CSVTU/CRP/ TEQIP-III/14 Date 17/08/2019	Design and development of parallel frame work for measurement of heat distributioning metallic seeds. Mr.Rajesh Tiwari, SSGI,Bhilai Dr. Karnal K Mehr SSGI,Bhilai RP/ Manufacturing and characterization of AA7075 alloy foam using calcium and magnesium carbonate as foaming Mr.Nitish Kumar Singh Gouraha, UTD, CSVTU Bhi		Mr.Rajesh Tiwari, SSGI,Bhilai Dr. Karnal K Mehta,	3,00,000
CSVTU/CRP/ TEQIP-III/15 Date 17/08/2019			Gouraha, UTD ,CSVTU Bhilai Mr. Ram krishna	3,00,000

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)

Newai, P.O-Newai, Distt. Durg (Chhattisgarh) - 491107

Ph. No.: 0788-2200062, Fax No.: 0788-2445020, Website: www.csvtu.ac.in, E-mail: registrar@csvtu.ac.in



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

CRP Sanction Number	Title of Research Project Name of Pl and Affiliation		Name of Co-PI and Affiliation	Total Approved Grant (INR		
CSVTU/CRP/ TEQIP-III/16 Date 17/08/2019	Mechanoluminescence and thermo luminance studies of rare earth activated phosphors for display and mechanical sensors	Dr. Vikas Dubey, BIT RAIPUR	Dr. Raunak Kumar Tamrakar, BIT Durg Mr.Rituraj Chandrakar, NMDC DAV Polytechnic	- 2,00,000		
CSVTU/CRP/ TEQIP-III/17 Date	Mechanoluminescence for crack detection in cementitious structure	oluminescence for crack in in cementitious structure Sharma, BIT RAIPUR Dr. Shri Ram Krishna Sinha UTD-CSVTU, Bhilai		2,50,000		
CSVTU/CRP/ TEQIP-III/18 Date 17/08/2019	SVTU/CRP/ Health risk assessment and remediation technique for uranium Sar BIT Durg Containamination in ground water of durg and near by district chhattisgarh SVTU/CRP/ Mutual coupling reduction in planner compact antenna for mid band 5G SIPMT Rail Date wireless application		/CRP/ Health risk assesment and Dr. Santosh Kumar HI/18 remediation technique for uranium Sar te containamination in ground water of BIT Durg	Sar	Dr. Pradeep Kumar Ghosh KEC Bhiai	2,00,000
CSVTU/CRP/ TEQIP-III/19						
CSVTU/CRP/ TEQIP-III/20 Date 17/08/2019	Design and development of cluster based smart agriculture system using machine learning and IoT	earning and IoT CCET Bhilai BIT Durg		sed smart agriculture system using CCET Bhilai BIT Durg chine learning and IoT Dr. Dillip Kumar Dash,	smart agriculture system using CCET Bhilai BIT Durg ine learning and IoT Dr. Dillip Kumar Dash,	2,50,000
CSVTU/CRP/ TEQIP-III/21 Date 17/08/2019	Development of manually driven solar juice cart	Prof. Shruti Tiwari SSGI Bhilai	Prof.Rajnish Prasad Pandey, CSIT Durg DR, R.N. Patel NIT Raipur	2,50,000		
CSVTU/CRP/ TEQIP-III/22 Date 17/08/2019	A novel high entropy alloys with composite microstructure	Dr. Anil kumar BIT Durg	Mr. Rajesh Kumar,CSIT Durg Mr.Rituraj Chandrakar, NMDC DAV Polytechnic	2,00,000		
CSVTU/CRP/ TEQIP-III/23 Date 17/08/2019	Electroluminescence studies of SrAl2O4: Eu2+, Dy3+ thin films of EL based device applications.	Dr. Dhirendra Singh Kshatri, SSIPMT Raipur	Dr. Vikas Dubey BIT Raipur Dr. Shubra Mishra SSIPMT Raipur	2,00,000		

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)

Newai, P.O-Newai, Distt. Durg (Chhattisgarh) - 491107

Ph. No.: 0788-2200062, Fax No.: 0788-2445020, Website: www.csvtu.ac.in, E-mail: registrar@csvtu.ac.in



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CRP Sanction Number	Title of Research Project	Name of Pl and Affiliation	Name of Co-Pl and Affiliation	Total Approved Grant (INR)	
TEQIP-III/96 high entropy alloys Date 05/09/2019		Dr. Arun Arora BIT Durg	Mr. Sanjay Singh CSIT Durg Dr Anil Kumar ,BIT Durg	300000	
CSVTU/CRP/ TEQIP-III/97 Date 05/09/2019	Effect of La3+ Doping on the Structural and Optical Properties of electron beam evaporation deposited on SrS thin films	Dr. Shubhra Mishra SSIPMT Raipur	Dr. Arti Verma RCET Bhilai Dr Dhirendra Singh Kshatri SSIPMT Raipur	200000	
CSVTU/CRP/ TEQIP-III/98 Date 05/09/2019	Fixed Point Theory, Fractal Theory, AFM analysis of thin films with Fractal Theory	Dr Subhash Chandra Shrivastava RCET Bhilai	Dr Ritu Shrivatava SSEC Bhilai	100000	
CSVTU/CRP/ TEQIP-III/99 Date 05/09/2019	Development of IOT based control on composite material	Ms Rinkey Sahu RSR Rungta Collage of Engineering & Technology Bhilai	Mr Hrishabh Singh Bias CCET Bhilai	180000	

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

RPS - Sanction Letter

File No. 8-98/FDC/RPS (POLICY-1) /2019-20

Date: 14 Aug 2020

The Drawing and Disbursing Officer All India Council for Technical Education Nelson Mandela Marg, Vasant Kuni, New Delhi-110070,

Sub: Release of a sum of Rs.2279019/- being the 1th installment of the total grant of Rs.2313725/- for conduct of Project under Research Promotion Scheme (RPS) during the financial year 2020-21.

Sir,

With preference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs.2279019/- (Rupees Twenty Two Lakh Seventy Mine Thousand Ninuteen Only) as 1st installment out of a total approved grant-in-aid of Rs.2313725/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:

I,	Name and address of the Beneficiary Institution (University / College / Institution)	*	Registrar / Director / Principal, Bhilal Institute of Technology, Durg, Chhattisgarh-491001
II.	Principal Investigator's Name & Dept./Course	***	Mr. Anii Kumar (Mechanical Engineering)
HI.	Grant-in-ald Sanctioneg	:	Rs 2313725 /- (Rs 1966665/- for non-recurring and Rs 3470597- for recurring expenditure)
IV.	Amount to be Released during the year 2019-20 (as 1* installment)	×.	Rs. 2279019 /- (Rs. 1966666/- Full amount of non-recurring 8, Rs 312353/- 90 % of recurring sanctioned)
V	Project Duration	I	a Years
VI.	Title of the Project	9	Development and Characterization of Novel WNbMoTaTiSix (x = 0, 0.3, 0.6 and 0.9 atomic ratio) Refractory High Entropy Alloys for High Temperature Applications by Vacuum Arc Melting Route.

Release of funds:

- The amount of the grant shall be drawn by the Drawing and Disbursing Officer (DDO). All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Bhillai Institute of Technology, Durg. Chhattisgarh-491001 through RTGS/PMFS.
- The sanctioned grant-in-aid is debitable to the Major Head "601.12-a [RPS Plant" Gen. and is valid for payment during the financial year 2020-21
- 3. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and principles of the Scheme.
- 4. The grant-in-aid is being released in conformity with the Terms & Conditions as well as norms of the scheine as already communicated and also being communicated in this letter.
- II. Maintenance of account by the Institute/PI:
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount
 of interest accrued on the grant.
- The grant is intended to cover items of expenditure/equipment approved by AICTE.
- Atknowledgement of receipt of grant and letter of acceptance of terms and conditions is to be submitted to AICTE within
 15 days from the receipt of the grant to the following address:

Director (Faculty Development Cell), AICTE, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

- The accounts of the grantee will be opened for test check by the Council or Comptroller & Auditor General of India or by any
 officer designated by them.
- 5. The Principal and PI of the Institute are requested to verify the correctness of the undermentioned bank account/RTGS/PFMS details submitted by them alongwith the Proposal, in which the grant is being released. In case of any omission, the same should be reported to AICTE immediately along with refund of entire grant: -

Pan No.	Sarti Name	Sank Branch	Bank Branch Add.	Account Holder Name	Account Type	Account Number	IFSC Code
AAA1867 SSD	State Bank Ol India	Alka Departmental Store	Sector-10, Ohita	Principal	Current Account	32471126372	SBW10006942

- 6. The grantee institution shall observe all financial norms and guidelines as prescribed by the AICTE/Government of India from time to time. Grantee institution must follow GFR guidelines in procuring the sanctioned items and maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets shall be maintained by the institute in the prescribed form i.e. GFR-19.
- interest accrued on the sanctioned grant-in-aid will be reported and refunded to AKTE and not adjusted against the subsequent installment.

III. General Instructions:

- It should be ensured that no RPS project in favour of the same P.). has been sanctioned during the last 03 years before
 utilizing this amount and the matter be brought to the notice of this. Council immediately in case a faculty is sanctioned
 multiple RPS Projects.
- 2. The duration of Project is 03 years and the date of release of the grant by AKTE shall be taken as the date of commencement of the project. The Registrar/Oirector/Principal shall intimate about the receipt of the grant to AICTE. Any Expenditure, incurred prior to issuance of this Sanction Order, would not allowed to be adjusted in the grant and if the University/Institution do not take up the project work within 6 months of the receipt of the grant, approval shall inso facto tapse and the Institute has to necessarily refund the untire grant to AICTE along with interest within a month. In case the grant is not refunded within said duration 18% interest will be levied on it. The grant has to be refunded to AICTE, through ATGS as per details given below:

Account Number	\$\$183199952
Name of the Account Holder	Member Secretary, AICTE, New Delhi
Bank Name	State Bank of India
Branch Name	Shashtri Bhawan, New Delhi
IFSC Code	SBIN0050203

- 3. The institute may constitute a Project Monitoring Committee (PMC). The composition of the PMC shall be as under:
 - Principal/Director of the institution (Chairperson).
 - ii. Two HOOs from institute (Members)
 - In case of private institute one subject expert from government institute, not below the rank of Associate Professor (Member)
 - iv. Coordinator of the project (Member Secretary)
- 4. The grant shall be utilized strictly for the purpose as specified in the sanction letter. Re-appropriation of funds from one Head to another is strictly not permitted viz. Returning and non-recurring Heads. Further, the equipment(s)/item(s) purchased should be as per the specifications and individual item-wise costs sanctioned by AICTE, and not taking the total grant sanctioned as one entity. Item-wise purchase cost shall be matched with the sanctioned cost, and the cost of item purchased below the sanction cost shall be restricted as actual cost. If the Item purchase cost is higher than its sanctioned cost, the cost shall be restricted to the sanctioned cost and the additional amount shall be met by the institute from its own resources.
- 5. Similarly, the recurring grant shall be used for the Items sanctioned by the AICTE. No money be used for going abroad to attend Conference / seminars. However, for presenting a Paper in a Seminar / Conference within the country, the travel expenses may be met from the recurring grant.

- No request for additional grant over and above the sanctioned grant shall be considered by the AICTE. The additional amount, if any, expended beyond the sanctioned grant shall be met by the institute from its own resources.
- The Institute/University shall not charge any overheads on this Project and will provide all the administrative support and timely release of grant to PI for completion of the Project
- 8. The grantee shall utilize grants only on approved items as per list of equipment attached. However, if the grantee wishes to recast the Project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as per the norms/procedures of AICTE/Government of India. The revised proposal should be within the total grant senctioned and duly-supported with reasons and recommendations of the Project Monitoring Committee (PMC).
- The assets acquired wholly or substantially out of All India Council for Technical Education'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 All India Council for Technical Education.
- 10. Each project sanctioned by AICTE is assigned a specific Reference Number, which is given on pre-page. All correspondence address to AICTE regarding the project must quote this number alongwith year of sanction of the project, otherwise correspondence may not be entertained.
- 11. The grantee shall follow the terms and conditions of Research Promotion Schemy (RPS) as laid down by the Council from time to time.

IV. Submission of documents by the institute/Pi to AICTE:

- A. Documents to be submitted within one month of completion of each financial year:
 - Annual Progress Report, indicating therein the number of patents, publications or any other achievement.
 - Utilization Certificate, Audited Bullzation Certificate, Receipt & Payments, Statement of Expenditure
 - Audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets in the prescribed form i.e. GFR-19.
 - iv. Separate Bals/vouchers related to Non-recurring and recurring expenditures duly signed & stamped by the PI & Head of the institution.
 - Stock entry register duly verified by the Store-in-charge and PI & counter signed by Head of institution.
- B. Documents to be submitted within two month of completion of the Project:
 - The consolidated Utilization Certificate (DC) and Receipt & Payment Account for the Project duration, duly audited.
 - ii. Consolidated audited statement of expenditure, to the effect that the grant has been utilized for the purpose for which it has been sanctioned. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council.
 - Project Completion Report duly signed & stamped by the PL& Head of the institution and Project Evaluation Committee (PEC) Members.
 - iv. Principal investigator/institute to submit the Feed Back Form in ARTE format.
 - The prescribed formats for submission of necessary mandatory documents and Terms & Conditions may please be downloaded from www.aicte-india.org/schemes/research-innovations-development-schemes.

Note: Any deviation from the above said time schedule will cause serious action against the institute.

Approved list of items under Non-recurring grant:

		No. of Units	Amount recommended
_	roved Item (As per proposal)		
	recurring		
	uum Arc Melting Furnace	1	Rs.1966666/-
ng	urring (i.e. 90% of total approved recurring		Rs.312353/-
ě.	nt) for Contingencies & Consumables only		Rs.2279019/-
	nd Total (A)+(B)		

- Registrar/Director/Principal, Bhilai Institute of Technology, Durg, Chhattisgarh-491001
- 2. Name of Principal Investigator, fitr. Anil Kumer, Bhilai Institute of Technology, Durg, Chhattisgarh-491001
- Office of Director General of Audit General Revenues, AGCR Building (P. Estate, New Delhi-110002.
- 4. Guard File

(Col. B. Venkat) Director (FDC)

2 1 /408 2020



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/6805

Bhilai, Date: 19/04/2022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/16, Dated 17/08/2019, the Collaborative Research Project (CRP) titled "Mechanoluminescence and thermo luminance studies of rare earth activated phosphors for display and mechanical sensors" was approved for grant-in-aid of INR 2,00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Dr. Vikas Dubey

Name of the Institute

BIT RAIPUR

Name of Co-Principal Investigator

Dr. Raunak Kumar Tamrakar

Name of the Institute

BIT Durg

Name of Co-Principal Investigator

Mr. Ritura) Chandrakar

Name of the Institute

:

1

NMDC DAV Polytechnic, Dantewada

Coordinator TEQIP-III

Newai, P.O. Newai, Bhilai, Distt. Durg (Chhattisgarh) - 491107 Ph. No.: 0788 - 2200062, Fax: 0788-2445020, Website: www.csvtu.ac.in, E-mail: registrar@csvtu.ac.in



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/ 6801

Bhilai, Date: 19/04/2020

Project Completion Certificate

Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/12, Dated 17/08/2019, the Collaborative Research Project (CRP) titled "A Novel approach to the synthesis of photosensitive non structure material their characterization for utilization of solar energy in Chhattisgarh" was approved for grant-in-aid of INR 2,00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Dr. Rajesh Lalwani

Name of the Institute

BIT DURG

Name of Co-Principal Investigator

Dr. Devi Singh Raghuwanshi

Name of the Institute

SSTC, Bhilai

Name of Co-Principal Investigator

Dr. Rubi Das

Name of the Institute

BIT Durg

Coordinator TEQIP-III
CSVTU, Bhilai



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/ 6819

Bhilai, Date: 19/04/2022

Project Completion Certificate Collaborative Research Project (CRP) under TEOIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/31, Dated 17/08/2019, the Collaborative Research Project (CRP) titled "Studies of luminescence properties of rare earth doped and codoped phosphors" was approved for grant-in-aid of INR 2,00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator : Dr. Manmeet Kaur Bhuic

Name of the Institute : SSTC-SSGI Bhilai

Name of Co-Principal Investigator : Dr. Mimi Akash Pateria

Name of the Institute : SSTC-SSGI Bhilai

Name of Co-Principal Investigator : Mr. Prashant Kumar Sahu

Name of the Institute : BIT DURG

Coordinator TEQIP-III



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/6865

Bhilai, Date: 19/04/2022

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/90, Dated 05/09/2019, the Collaborative Research Project (CRP) titled "Development of low cost and high performance polymer gas sensor" was approved for grant-in-aid of INR 2,00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Dr. Devi Singh Raghuwanshi

Name of the Institute

SSGI Bhilai

Name of Co-Principal Investigator

Dr. Rajesh Lalwani

Name of the Institute

BIT Durg

Name of Co-Principal Investigator

B. Gopal Krishna

Name of the Institute

Pt. R.S.S.U. Raipur

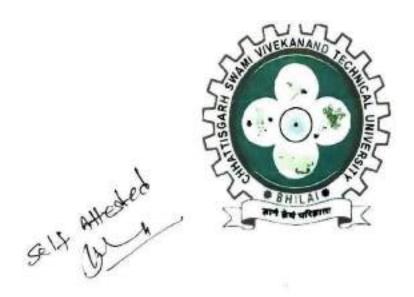
Coordinator TEQIP-III

Collaborative Research Project Completion Report Funded by TEQIP-III CSVTU, Bhilai

Title of The project: "Mechanoluminescence Technique for Crack Detection in Cementitious Structures"

File number: CSVTU/CRP/TEQIP-III/17

Submitted to



Chhattisgarh Swami Vivekanand Technical University, Bhilai

By

Dr. Sri Ram Krishna Mishra

Dr. Raunak Kumar Tamrakar

(Principal Investigator)

(Co Principal Investigator)

Bhilai Institute of Technology Raipur

Bhilai Institute of Technology Durg

Bhilai Institute of Technology Raipur, Kendri, New Raipur C.G., India 493661



CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

CRP Sanction Number	Title of Research Project	Name of Pl and Affiliation	Name of Co-PI and Affiliation	Total Approved Grant (INR)
CSVTU/CRP/ TEQIP-III/16 Date 17/08/2019	Mechanoluminescence and thermo luminance studies of rare earth activated phosphors for display and mechanical sensors	Dr. Vikas Dubey. BIT RAIPUR	Dr. Raunak Komar Famrakar, BH Durg Mr.Rituraj Chandrakar, NMDC DAV Polysechnic	2.00,000
CSVTU/CRP/ TECIP-III/17 Date 17/08/2019	Mechanoluminescence for crack detection in comentitious structure	Ur. Shri Ram Krishna Shanna: BIT RAIPUR	Mr.Manish Kumar Sinha UTD-CSVTU, Bhitai	2,50,000
CSVTU/CRP/ TEQIP-III/18 Date 17/08/2019	Health risk assesment and remediation technique for uranium containamination in ground water of durg and near by district chhattisgarh	Dr. Santosh Kumar Sar BIT Durg	Dr. Pradeep Kumar Ghesh KEC Bhiai	2,00,000
CSVTU/CRP/ TEQIP-III/19 Date 17/08/2019	Mutual coupling reduction in planner compact antenna for mid band SG wireless application	Mr. Upendra Soni SSIPMT Raipur	Mr. Vidhata Peddar. CEC Bilaspur, Mr.Robert Mark, GGU Bilaspur	2,50,000
CSVTU/CRP/ TEQIP-III/20 Date 17/08/2019	Design and development of cluster based smart agriculture system using machine learning and to f	Dr. Rifesh Dash CVF F Fbidai	Dr. GC Biswal BH Durg Dr. Dillip Kumar Dash, CCET Bhilai	2.50,000
CSVTU/CRP/ TEQIP-III/21 Date 17/08/2019	Development of manually driven solar juice cart	Prof. Shrati Liwan SSGI Bhilai	Prof.Raquish Prasad Pandey, CSU Durg DR. R. N. Patel NU Raquir	250,000
CSVTU/CRP/ TEQIP-III/22 Date 17/08/2019	A novel high entropy alloys with composite microstructure	Dr. Amil kaman BFF Durg	Mr. Rajesh Komur CSIT Durg Mr.Rituraj Chandrakar, NMDC DAV Polytechnic	2,00,000
CSVTU/CRP/ TEQIP-III/23 Date 17/08/2019	Electrolaminescence studies of SrAI2O4 Eu2+, Dy3+ thin films of EL based device applications	Dr. Dhirendra Singh Kishana, SSIPMI Raipur	Dr. Vikas Dubey BH Raspur Dr. Shubra Modra SSIPMT Raspur	2,00,000

TEQIP-III, Coordinator CSVTU Bhilai (C.G.)

Newai, P.O-Newai, Distr. Durg (Chhartis garls) - 491107

Ph. No.: 0788-2200062, Fax No.: 0788-2445020. Website: www.esytu.ac.in, E-mail: registrar@esytu.ac.in Page 3 of 12

CHHATISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ स्वामी विवकानंद तकनीकी विश्वविद्यालय, विवर्ष

Entiant mbet	Title of Hesearch Project	Name of mong Attitudion	Peans of Co-P1 and Afficiation	Total Approved
ps/tu/cns/ red/s//49 pste ps/ts/2019	To facilitated the sales of rural grodects and arts of Chluttisquely arough e commerce using data mining, data science and soft computing techniques.	Adityn Tiwari BIT Raipur	Dr. Jyanii Filha BIT DURG	170000
EQIP- III/SODate 05/09/2019	sechnology for removing cadmium from industrial effluents	loguent of efficient biosarpsion Dr. Savaress Sehu Dr. Mathemess condex industrial efficients Dr. Marpus Dr. Mathemess condex BIT Dury		100000
CSVTU/CRP/ OP-111/51 Data 05/09/2019	Effect on properties on gen-polymer concrete with particle replacement of fine aggregate by crusher stone	Désprista pandey: BIT Raipur	Mr. Toeban singh Rathuse SSIPMT Raspur Dr. R.S. Mishen DIT Raspur	190000
CSVTU/CRP/ 1EQIP-III/52 Date 05/09/2019	Avenues of sustainable tourism in Chranisgarh	Dr. Soures sarker SSTC Bhilai	Biowaject Biotecharjee SSTC Bridge Abhishek Chokarborty BIT Dung	100008
CSVTU/CRP/ TEQIP-IR/53 Date	Development of single phase low cost power analyser	Ox Mithilesh single KITE Raipur	RIT RAIPLR Or, Soji, T. Clucka Polytechnic durg	115000
05/09/2019 CSVTU/CRP/ TEQIP-III/54 Date 05/09/2019	Effect of application of epoxy coming an structural steel coonscion	Or, Mohan Kumar Gupta BIT durp	Ms. Strate Gupta UTD Biolog Ms. Stradcha sharma BIT Dong	200000
TEOJP III/55 Date	Line stan permanent magnet motors for future electric velsicle	Dr. Ankir Dwivedi CEC bilaspur	Politic Guesa REC Durg	150000
05/09/2019 CSVTU/CRP/ TEQIP-III/56 Date	Determination of organophosphorus perticides in vegitable and water sample at attacpur area	SSIPAT Rugar	Dr Shipa Shame RCCT Rapur	150000
05/09/2019 CSVTU/CRP/ TEQIP-III/S7 Dato		Mr. Atul Chakrawari SSIPMT Raigun	Massish Kumar Mishan BIT Raiper Dr. Shimpy Kalls	25000
05/09/2019 C5VTU/CRP/ TEQIP-III/S8 Date 05/09/2019	Design and Development of a cost effective phaser measurement unit for real time monitoring of smart power system	Dr. Sheshwati Ray BIT dura	Goyal SSTC bla Mr. Gozav Shu Bit Durg	10000

छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वावद्यालक

Netter #1				2)				
Sanction umber	Title of Research Project	Name of Pl and Affiliation	Name of t	Co-Pt and				
/TU/CRP/ QIP-III/16 Date 1/08/2019	Mechanoluminescence and thermo luminance studies of rare earth activated phosphors for display and mechanical sensors	Dr. Vikas Dubey. BIT RAIPUR	Tammkar, Mr Rituraj Chandraka NMDC D	Dr. Raunok Kumar Tammkar, BIT Durg Mr. Rituraj Chandrakar, NMDC DAV Polytechnic		Mr Rituraj Chandrakar, 2.00,0 NMDC DAV		00
5VTU/CRP/ EQIP-III/17 Date 17/08/2019	Mechanoluminescence for crack detection in cementitious structure	Dr. Shri Ram Krishna Shama, BIT RAIPUR	Mr. Manis Sinha UTD-CS	sh Kumar VTU, Bhilai	2.50,000			
IT/08/2019 ISV CRP/ IEQIF III/18 Date 17/08/2019	Health risk assessment and remediation technique for uranium containamination in ground water of durg and near by district chhattisgarh	Dr. Santosh Komar Sav BIT Durg	TT Durg Chosh KEC Bhiai		2.00,000			
CSVTU/CRP/ TEQIP-III/19 Date 17/08/2019	Mutual coupling reduction in planner compact antenna for mid band 5G wireless application	Mr. Upendra Soni SSIPMT Raipur	CEC Bil	Mr. Vidhata Poddar. CEC Bilaspur. Mr.Roben Mark. GGU Bilaspur		0,000		
CSVTU/CRP/ TEQIP-III/20 Date 17/08/2019	Design and development of cluster based smart agriculture system using machine learning and IoT	Dr. Ritesh Dash CCET Bhilai	Dr. Dil Dash.	llip Kumar	1	50,000		
CSVTU/CRP/ TEQIP-III/21 Date 17/08/2019	Development of manually driven solar juice cart	Prof. Shruti Tiwari SSGI Bhilai	Pande DR. I	Prof.Rajnish Prasad Pandey, CSIT Durg DR. R.N. Patel NIT Raipur		2.504		
CSVTU/CRP/ TEQIP-III/22 Date 17/08/2019	A novel high entropy alloys with composite microstructure	Dr. Anil kumar BiT Durg	Kui Mr Chi NA	Rajesh mar,CSIT D Rituraj nandrakar, MDC DAV olytechnic		2.0		
CSVTU/CRP/ TEQIP-III/23 Date	Electroluminescence studies of SrA12O4: Eu2+. Dy3+ thin films of EL based device applications.	Dr. Dhirendra Sir Kshatri. SSIPMT Raipur	B	or, Vikas Du BIT Raipur Or, Shubra N SSIPMT Ra	Mishra			



BHILAI INST TUTE OF TECHNOLOGY, DURG

मिलाई प्रौद्योगिकी संस्थाल, दुर्ग

(Seth Balkrishan Memorial

Approved by AICTE, New Delhi, Affiliated to CSVTU, Bhila Major UG Courses Accredited by NBA Accredited by NAAC With "A" Grade An ISO 9001:2015 Certified Institution NIRF-2018 Rank Band 151-200

Date: 07/09/2019

To.

The Project Director - DST NIMAT 2019-20 Entrepreneurship Development Institute of India Distt- Gandhinagar, Gujarat India

Subject: Submission of required documents for DST NIMAT Project 2017-18

Reference: EDII/DST-NIMAT/19-20/002, Dated: 12.08.2019

Sir.

This is with reference to the above sanction order for conducting Entrepreneurship Awareness Camp (EAC) under the aegis of NSTEDB, New Delhi, we hereby submitting the various documents required for release of first installment of project fund sanction.

List of documents:

- Duly signed Agreement
- Duly signed "Terms & Conditions"
- Action Plan (Annexure I)
- Bank Details (Annexure IA)
- Programme Schedule

An early action is solicited.

Thanking you,

Dr. Ashok Kumar Chandra

Associate Professor,

Department of Management

BIT Durg C.G.



DST - NIMAT PROJECT 2019 - 20

Entrepreneurship Development Institute of India (EDII), Ahmedabad

The National Science & Technology Entrepreneurship Development Board, DST, Govt. of India

Agreement between EDH and Programme Implementing Agency (PIA)

BHILAT	INSTITU	382 428, TE 05 T	Dist. Gandhin:	13.1
Mame & address		C. KOAD	DURGI CO	enter into the following
has agreed to con	INSTITUTE	OF TECHN	10 LOGHY, DU	NGT (Name of the PIA) CDP(s) FDP(s). The

General Guidelines

- The grant being released should be exclusively spent on the specified purpose for which it has been sanctioned within stipulated time. Any unspent balance out of the amount sanctioned would be surrendered to EDII, Ahmedabad. Carry forward of unspent funds to the next financial year for utilisation for the same purpose may be considered only with the specific approval of the EDII, Ahmedabad.
- 2. The Programme Implementing Agency will furnish progress report of the work on the programme from time to time. In addition, appropriate persons may visit the Programme Implementing Agency periodically for ascertaining the progress of work and resolve any difficulties that might be encountered in the course of implementation. During the progress of the project, the PIA will provide all facilities to the Visiting Persons. On completion of the programme, consolidated report of the work done on the subject in a bond from shall be sent to EDII, Ahmedabad.
- The Programme Implementing Agency shall furnish to EDII, Ahmedabad, Utilisation Certificates (copy enclosed) and an Audited Statement of Accounts pertaining to the grant within three months of completion of the programme / activity sanctioned.
- 4. The Programme Implementing Agency will maintain separate audited accounts for this project. If it is found expedient to keep a part or whole of the grant in a bank account earning interest, the interest carned should be reported to the EDII, Ahmedabad. The interest thus earned will be treated as a credit to the PIA and the same to be refunded to NSTEDB through EDII.
 - The Programme Implementing Agency will not outsource the work for which the grant is being sanctioned. In case the PIA itself is not in a position to execute or complete the project, it would be required to refund the entire amount of grant-in-aid received by it to EDII, Ahmedabad.

(P.T.O.)



TERMS AND CONDITIONS FOR CONDUCTING ENTREPRENEURSHIP AWARENESS CAMP (EAC)

- Each camp of three days duration to be conducted in the premises of the academic institution.
- Each EAC should have minimum 75 students having S & T background i.e., S&T graduate/diploma holders, students of degree/diploma in Science & Technology.
- 3 Industrial visit to be organized as part of EAC.
- Programme Implementing Agency may like to provide inputs as per the suggested schedule placed at EDII website (www.ediindia.org>Projects>Ongoing Major Project>DST-NIMAT).
- Reading/reference material to be provided to the participants and the same can be downloaded from EDII website.
- 6. Financial assistance will be made available to the PIA & Rs. 20,000/- per EAC as per the budget break-up given below:.

Sr. No.	Expenditure Head	Amount in Rs.
1	Manpower including honorarium to experts	4500.00
2	Travel & Factory visit	7500.00
3	Miscellaneous & Contingency	3000.00
4	Administrative overheads	20,000.00
	Total	

- First installment i.e., 80% to be released on receipt of the duly signed Agreement, Terms & Condition along with the Action Plan (as per Annexure-I) and Bank detail (Annexure-I(A)).
- Activity Completion Statement (ACS) (as per Annexure II) should be submitted within one week
 after completion of each activity.
- 9. Second and final installment i.e., 20% to be released on successful completion of EAC(s), submission of Post Programme Report (PPR) within one month (Soft Copy in Microsoft Word Format on CD & Hard Copy in Spiral Binding) and List of Participants (in excel format) as per the Proforma placed at EDII website, submission of statement of audited expenditure (as per Annexure-III) and utilization certificate (as per Annexure-IV).

Signature of Head of the Institute

Principal
Bhilai Institute of Technolog(Seth Bolkrishan Memorial)
Bhilai House , DURG-491001
Chhattisgarh, MOIA

TERMS AND CONDITIONS FOR CONDUCTING ENTREPRENEURSHIP AWARENESS CAMP (EAC)

Each camp of three days duration to be conducted in the premises of the academic institution.

- Each EAC should have minimum 75 students having S & T background i.e., S&T graduate/diploma holders, students of degree decided. holders, students of degree diploma in Science & Technology.
 - Industrial visit to be organized as part of FAC
- Programme Implementing Agency may like to provide inputs as per the suggested schedule placed at EDH website (www.odio.di FDH website (www.ediindia.org>Projects>Ongoing Major Project>DST-NIMAT).
- Reading/reference material to be provided to the participants and the same can be downloaded from EDII website
- Financial assistance will be made available to the PIA @ Rs 20,000/- per EAL as per the budget break-up given below;

	Expenditure Head	Amount in Rs.
Sr. No.	Expenditor	4500.0
1	Manpower including honorarium to experts	7500.0
2	Travel & Factory visit	3000.0
3	Miscellaneous & Contingency	20,000.0
4	Administrative overheads Total	eement, Terms & Condi

- First installment i.e., 80% to be released on receipt of the duly signed Agreement, Terms & Condition along with the Action Plan (as per Annexure-I) and Bank detail (Annexure-I(A)). 7.
- Activity Completion Statement (ACS) (as per Annexure II) should be submitted within one week
- Second and final installment i.e., 20% to be released on successful completion of EAC(s), submission of Post Programme Report (PPR) within one month (Soft Copy in Microsoft Word Format on CD & Hard Copy in Spiral Binding) and List of Participants (in excel format) as per the Proforma placed at EDII website, submission of statement of audited expenditure (as per Annexure-III) and utilization certificate (as per Annexure-IV).

Signature of Head of the Institute

Principal ential Institute of Technology (Seth Bulkrishan Memorial) Bhital House , DURG-491001 Chhattisgarn, INCIA

Annexure ~ 1 (A) DST NIMAT Project 2019-20

BANK DETAILS

& Postal Address of the Programme Implementing Agency:

ILAI INSTITUTE OF TECHNOLOGY, BHILAI HOUSE DURG C.G. INDIA 491001.

of 90t: 0788-2359297, 2359163, 6556554 (EPABX)

X: +91 788 - 2359263, 2359408

ail; bit@bitdurg.ac.in, principal@bitdurg.ac.in

Name of the Account Holder : BHILAI INSTITUTE OF TECHNOLOGY, DURG

2. Bank Account No.

: 00000032471126372

3. Type of Account

: CURRENT ACCOUNT

4. Name of the Bank

: STATE BANK OF INDIA

5. Address of Bank

: ALKA DEPARTMENTAL STORE,

SECTOR-10, BHILAI, DURG C.G. 490006

6. 9 Digit branch MICR Code

: 490002007

Bank IFSC Code

: SBIN0006942

8. Branch Code

: 6942

Seal and signature of Head of the Institute Principal

Bhilal Institute of Technology (Seth Delkrishan Memorial) Bhilal House ,DURG-491001

Chhattisgarh, INDIA



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI छत्तीसगढ़ स्वामी विवेकानंद तकनीकी विश्वविद्यालय, भिलाई

No. CSVTU/TEQIP-III/2022/ 6935

Bhilai, Date: 19104 ROBE

Project Completion Certificate Collaborative Research Project (CRP) under TEQIP-III

As per the letter No. CSVTU/CRP/TEQIP-III/52, Dated 05/09/2019, the Collaborative Research Project (CRP) titled "Avenues of sustainable tourism in Chhattisgarh" was approved for grant-in-aid of INR 1,00,000/-subjected to the fulfilment of the Guidelines. The project has been successfully completed and report submitted to TEQIP-III Cell, CSVTU Bhilai.

Name of Principal Investigator

Dr. Souren Sarkar

Name of the Institute

SSTC Bhilai

Name of Co-Principal Investigator

Dr. Biswajeet Bhatacharjee

Name of the Institute

SSTC Bhilai

Name of Co-Principal Investigator

Dr. Abhishek Chakarborty

Name of the Institute

BIT Durg

Coordinator TEQIP-III

1

NVIDIA-BENNETT RESEARCH CENTRE FOR ARTIFICIAL INTELLIGENCE

BENNETT PATORIST V

Prof. Deepak Garg

Head: NVIDIA-Bennett Research Centre for Artificial Intelligence
www.gdeepak.com

Date: 02-04-2018

Dear Dr. Arun Arora Principal, Bhilai Institute of Technology, Durg, Chhatisgarh (India)

It is my pleasure to inform that Royal Academy of Engineering, UK has sanctioned a project titled "Making Deep Learning and AI skills mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research" worth £ 3,39,000 GBP. The project start date is 02 April, 2018 and end date is 30 April, 2020.

University College London and Brunel University are our UK partners. NVIDIA, Videoken, Edvantics and AWS Educate unit of Amazon are our Industry Partners.

As per the project structure there are Zonal Partners spread across different states of India, who will be lead institution for 10 more institutions in their surrounding geographical area. As part of this initiative a five member research group on AI will be established with planned and defined outcomes.

We appreciate the letter of support given by your institution. The obligations and benefits of each Zonal partner are being circulated in a separate sheet.

This document notifies your institution as a Zonal Partner and Dr. M.V. Padmavati as Lead Contact from your institution.

Any change in Lead Contact should be duly informed. Any defaulting behaviour on key aspects of the projects may lead to the cancellation of Zonal Partner status.

We are continuously trying to further upscale the project in terms of funding, partners and resources. Your continuous involvement will be key to making this project as a key milestone in Artificial Intelligence Revolution in India and also enable your institution to excel.

With sincere regards

Prof. Deepak Garg

Plot Nos 8-11, TechZone II, Greater Noida 201310, Uttar Pradesh, India. Phone: +91 9815599654, deepak.garg@bennett.edu.in www.bennett.edu.in



Bhilal Institute of Technology, Durg India

Opava 31rl October 2017

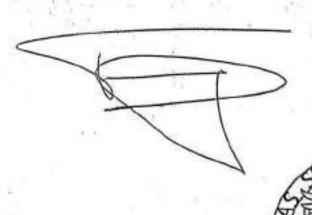
Confirmation of the participation in the project of the Erasmus+ programme

This is to certify that the Bhilai Institute of Technology, Durg, India participates in the project of the European Commission Erasmus+ programme Key Activity 107 - Higher education student and staff mobility between Programme and Partner Countries.

The project period is from 1" June 2017 to 31" July 2019.

The project activities contain mobilities of students and academic staff in the following extent:

- 4 academic staff mobilities from Bhilai Institute of Technology, Durg, India, to Silesian University in Opava, Czech Republic.
- 2 academic staff mobilities from Silesian University in Opava, Czech Republic to Bhilai Institute of Technology, Durg, India.
- 8 students mobilities from Bhilai Institute of Technology, Durg, India, to Silesian University in Opava, Czech Republic.





Číslo žádosti: 2017-1-CZ01-KA107-034877

Slezská univerzita v Opavě Na Rybníčku 626/1 746 01 Opava č.j. DZS/10284/2017

V Praze 26, května 2017

Vyhodnocení žádosti o financování mobilit studentů a zaměstnanců mezi programovými a partnerskými zeměmi programu Erasmus+ vysokoškolské vzdělávání (KA1). Výzva 2017

Vážená paní / Vážený pane,

dovolujeme si Vám oznámit, že na základě jednání Schvalovací komíse programu Erasmus+ vysokoškolské vzdělávání ze dne 25. května 2017 byla Vaše žádost o financování mobilit studentů a zaměstnanců mezi programovými a partnerskými zeměmi programu Erasmus+ vyhodnocena následovně³;

Region	Země		Schválený grant v € včetně OM		Počet mobilit
Region 6 - Asia	India	58 720,00	58 720,00	schváleno	16
Region 7 - Central Asia	Uzbekistan	47 036,00	47 036,00	schváleno	12

Hodnocení probíhalo pro každou jednotlivou zemí zvlášť, instituce tedy mohla získat grant například jen pro určité mobility/země. Při hodnocení byly žádosti posuzovány na základě čtyř výběrových kritérií:

- 1. Relevance strategie (max. 30b)
- 2. Kvalita podmínek spolupráce (max. 30b)
- Kvalita koncepce a realizace projektu (max. 20b)
- 4. Dopad a diseminace (max. 20b)

Země zamítnutá z důvodu nedostatku financí je taková země, která splňovala výběrová kritéria, ale vzhledem k vysokému počtu žadatelů o grant v dané rozpočtové obálce mohl být grant udělen pouze žadatelům, jejichž žádosti dosáhly v hodnocení vyššího počtu bodů.

Země zamítnutá z důvodu kvality je taková země, která při hodnocení nedosáhla minimálně 60 bodů ze 100 možných, nebo taková, která v prvním kritériu (Relevance strategie) nedosáhla alespoň 50 % z maximálního počtu bodů v daném kritériu.

Prostředky na organizací mobilit jsou alokovány v paušální výši na 1 mobilitu dle pravidel Evropské komise (tj. 350 EUR na první až stou mobilitu a 200 EUR na stoprvou a každou další mobilitu).

¹ Toto rozhodnutí, které je výsledkem výběrového procesu uskutečečného na základě postupů stanovených čeropskou komisí, je konečné. Proti výsledku je možně se do 15 dní od doračení sphoto rozhodnutí odvotat, a to pisemně na e-mail <u>ombudinnanýhdo, ce</u> či na adresu Ombudinnan, DZS, Na Politi 4, Praha 1, 110 00.



Celková schválená finanční podpora tohoto projektu z prostředků Evropské unie činí: <u>105 756,00 EUR.</u> Celkový počet schválených mobilit je 28.

Finanční podpora z prostředků EU Vám bude přidělena na základě grantové smlouvy s DZS.

O výsledku výběrového řízení prosím uvědomte Vaše partnerské instituce.

Děkujeme za Váš zájem o účast v programu Erasmus+ vysokoškolské vzdělávání.

S pozdravem

avem property

lng. Alena Svobodová vedoucí oddělení Erasmus+ vysokoškolské vzdělávání

Příloha 1: Komentář hodnotitelů Příloha 2: Pokyny pro zadávání bankovních údajů do systému BADU



Příloha 1: Komentář hodnotitelů

Navrhovaný projekt mobilit vychází z dosavadní spalupráce Slezské univerzity se jmenovanými univerzitami v Indíi a v Uzbekistánu, v rámci které docházelo nejenom k vědecké spolupráci, ale rovněž k výměně pedagogů v obou směrech o k přijímání uzbeckých doktorandů na Slezskou univerzitu. Žadatel by měl pouze upřesnit, kdy tato spolupráce začala o v kterých letech probíhaly jednotlivé aktivity.

Navrhovaný projekt plně odpovídá dlouhodobě strategii internacionalizace na Slezské univerzitě a rovněž naplňuje strategické cíle Chhattisgarh Swami Vivekanand Technical University v Indii a National University of Uzbekistan. Žadatel by měl pouze více rozvěst, jak plánované mability zapadají do strategie internacionalizace na University of Delhi. Žadatel jasné odůvodňuje výběr požadovaných studentských a učitelských mabilit mezi partnerskými univerzitami. Žadatel stručně popisuje rozdělení zadpovědností a rali v rámci interinstitucionální dohady mezi Slezskou univerzitau a partnerskými univerzitami v Indii a v Uzbekistánu. U obou zemí jsou dobře papsány cíle kaoperujících institucí a mobilita může pomocí k naplnění těchta cílů.

Jednotlivě fáze projektu včetně příprovy, výběru účastníků, samotně realizace mobilit a navazujících aktivit jsou jasně popsány. Žadatel by měl pauze upřesnit, jak budou uznávány zahraniční výjezdy učitelů. Všechny fáze projektu by měly být zaneseny do časového harmonogramu. V žádosti jsou zmíněny komunikační prostředky, které budou použity během realizace projektu. Pozitívní je skutečnost, že mobilita je přístupná l osobám se specifickými potřebami.

Žadatel adekvátně popisuje dapad projektu na vylíždějící studenty a učítele a na akademické prostředí na zapojených univerzitách, měl by ale také doplnit dopad projektu na ostatní subjekty na místní, regionální a vnitrostátní úrovní a to jak v České republice, tak i v Indii a v Uzbekistánu. V připadě Indie žadatel konkrétně specifikuje diseminační aktivity a kanály, kterými budou výsledky šířeny. Není ale dostatečně zřejmé, zda se jedná o diseminační aktivity pouze ze strany Slezské univerzity, nebo rovněž ze strany indických instituci. V případě Uzbekistánu je otázka diseminace zcela opomenuta. Žádost by měla obsahovat i strategii monitorování a způsoby evaluace výsledků mobility.

Závěr.

Celkově lze žádost hadnotit jako dobrou a v případě dastatečných finančních prostředků ji lze doporučit k financování. I přes drobné výtky zejméno v oblasti navazujících aktivit (diseminace, evaluace) lze díky předchozí spolupráci zapojených institucí předjimat úspěšnou realizaci projektu.

Higher Education Partnership - India Contract

This Contract (the 'Contract') is made on the 17th March, 2016 between:

- (A) The Royal Academy of Engineering incorporated by Royal Charter of 3 Carlton House Terrace, London SW1Y 5DG, Registered Charity 293074 ('the Academy')
- (B) Thapar University Computer Science and Engg Dept , Patiala, India, 147004, India , ('the Recipient')

Background:

- (A) This Contract contains the terms and conditions of an Award to be made by the Academy under its Higher Education Partnership - India scheme, whose purpose is support the aims of the UK government's Newton Fund by facilitating international visits and exchanges between industry and academic partners in the UK and their counterparts in selected Newton Fund Partner Countries.
- (B) The details of the Award are set out in Annex A to this Contract.

It is agreed as follows:

Definitions

'The Award' means the award of a grant whose details are set out in Annex A.

'The Award Letter' means the letter or email from the Academy addressed to the Awardee(s) confirming the Award as detailed in Annex A.

'The Recipient' means the university / organisation named above which will be formally receiving the Award.

'The Principal Contact' means the Awardee who is the principal contact at the Recipient who is named in Annex A.

'The Programme of Activities' means those activities specified in the Application, attached as Annex B, subject to any additional, excluded or amended activities detailed in clause 3.4

'The Awardee(s)' means the Principal Contact and any other person(s) who is named in the original Application, as the context may require.

'Online Grant System' means the Academy's online application and assessment program through which the Award application was submitted, assessed, and will be monitored.

'Statement of Expenditure' means the statement of expenditure required to be submitted by the Recipient under Clause 5.1.

'Report' means any formal written update concerning the Programme of Activities required to be submitted by the Awardee under Clause 4.5.

'Not applicable' means this clause is not relevant to this Contract and has been redacted. The clause number remains in place to maintain the accuracy of any clauses which refer to other clauses.

2. Grant of Award

Dr Shivani Goel

Lead Co-Applicant

Co-Applicant

+91-9915599654 (Mobile) shivani@thapar.edu (Work)

www.thapar.edu (Work)

Computer Science and Engineering Department, Thapar University, Patiala, India, 147004, India (Work)

Mr.MarkLester

Main UK and Industry Representative

Co-Applicant 020 38265 621 (Work) mark.lester@futurelearn.com (Work) ww.futurelearn.com (Work)

FutureLearn, c/o The British Library, 96 Euston Rd, London, UK, NW1 2DB, United Kingdom (Great Britain) (Work)

Please include your institution name in the address line

Please provide contact details of the Lead and Co-Applicants

Please enter details for every applicant involved in this proposal, including the Lead Indian university and co-applicants from industry and academia in the UK and India.

Title	Full Name	Job title	Institution	Email	
		Head, Computer Science and	Thapar University, Patiala	dgarg@thapar.edu	
Dr	Deepak Garg	Engineering Department	1100		
1		I North Control of the Control of th	Thapar University, Patiala	smittal@thapar.edu	
Prof	Susheel Mittal	Deputy Director Thapar University, Padaia			
		Assistant Professor	Thapar University, Patiala	shivani@thapar.edu	
Dr	Shivani Goel	Assistant .		mark.lester@futurelea	
Mr	Mark Lester	Global Head of Education Partnerships	FutureLearn, UK	m.com	
	- AND	Head, Department of	Amritsar College of	amit.sarin@yahoo.com	
Prof	Amit Sareen	Applied Sciences	Engineering, Amritsar	f.i	
		Director-Amrita	Amrita University, Kerala	kamal@amrita.edu	
Prof	Kamal Bijani	E-Learning Research Lab	Annua orani ana ya	1.0	

- 3. Programme of Activities, and timetable
- 3.1 The Recipient shall procure the carrying out of the Programme of Activities as described in
- 3.2 The Recipient shall not modify or alter the Programme of Activities without the prior written consent of The Academy.
- 3.3 The Academy's approval must be sought in advance and in writing for changes to any of the
- 3.3.1 the Start Date
- 3.3.2 the End Date
- 3.3.3 the re-allocation of expenditure between different cost categories, as specified in Annex B
- a change from full to part-time employment, or from part-time to full-time, as applicable. 3.3.4

The Awardee(s) should specify any reasons for the requested changes, and may at the Academy's request be required to provide further reasonable information. The Recipient and the Awardee(s) will be notified of the Academy's decision in writing. However, no additional funding will be provided if these dates are varied, subject to Clause 2.12 (if applicable).

- 3.4 The Recipient shall undertake the additional or amended activities (if any) specified in Annex B, and shall not use the funding for the activities excluded (if any) in Annex B.
- 3.5 Not applicable.
- 4. Payment of the Award
- 4.1 The amount of the Award to be paid to the Recipient is set out in Annex D.
- 4.2 The Recipient undertakes to provide funding for any additional costs not covered by the Award which are necessary for the successful completion of the Programme of Activities. The Award is cash-limited and no supplementary funding will be provided by the Academy to complete the Programme of Activities in event of a shortfall.
- 4.3 The Recipient will provide the Awardee(s) with sufficient access to funds to enable the successful completion of the Programme of Activities.
- 4.4 Once this Contract has been signed by both parties in accordance with Clause 2.2 and any conditions specified in Clause 2.3 have been met the Academy shall make payments to the Recipient according to the Payments Schedule shown in Annex D. The Recipient will complete Annex E with the necessary banking information required to process the payments. The Recipient is not required to submit invoices for payment and all payments will be made to the bank account provided.
- 4.5 Each payment will be conditional upon receipt by the Academy of any and all Reports which fall due prior to the payment date, in accordance with Clause 5.1. Reports must be submitted in a timely manner and be of a satisfactory standard to release payment, as determined by the Academy, acting reasonably. Reports submitted more than 60 days after the due date are unlikely to be considered timely and no further payment will be made.
- 4.6 The Academy will deduct from the Final Payment (a) any underspend on the Programme of Activities which is evident from the Statement of Expenditure and (b) any funds not spent exclusively on the Programme of Activities, and if the amount to be deducted exceeds the amount of the Final Payment then no Final Payment will be made and the balance due shall be refunded to the Academy by the Recipient within 4 weeks of the Award End Date.

in place to ensure that research is conducted in accordance with standards of best practice; systems to promote research integrity; and transparent, robust and fair processes to investigate alleged research misconduct.

- 6.9 The Recipient shall ensure that the Awardee(s) acknowledge the Academy's financial contribution in all publications regarding or resulting from the Programme of Activities, in the form specified in Clause 2.8 or as otherwise agreed to by the Academy.
- 6.10 The Recipient shall ensure that all uses of the Academy's logo conform to the Academy's requirements, as notified by the Academy to the Recipient.
- 6.11 The Academy may refer to the making of the Award, the names of the Recipient and the Awardee(s), and the general aims of the Award in any reports to its funders and in any publicity material.
- 6.12 Not applicable.
- 6.13 Not applicable.
- 6.14 Not applicable.

7. Intellectual Property and equity rights

- 7.1 The Academy will not own or be granted a licence under any intellectual property rights relating to or resulting from the Programme of Activities.
- 7.2 The Recipient will ensure that the intellectual property rights in any results derived from the Programme of Activities are shared between the Recipient, the Company and the Awardee(s) and agreed in writing between the Recipient, the Company and the Awardee(s) before the Award Start Date. The Recipient will supply details to the Academy on request.
- 7.3 The Recipient will ensure that all existing intellectual property rights required to undertake the Programme of Activities are agreed in writing between the Recipient and the Awardee(s) before the Award Start Date. The Recipient will supply details to the Academy on request.
- 7.4 Not applicable.

8. Termination

- 8.1 Should the Department for Business, Innovation and Skills (or successor department) reduce the funding of this Award the Academy reserves the right to terminate this Contract at any time with immediate effect by giving written notice to the Recipient.
- 6.2 The Academy may also terminate this Contract by notice in writing if:
- 8.2.1 the Recipient or the Awardee(s) has provided any false information in connection with the Award application or the Programme of Activities; or
- 8.2.2 the Recipient fails to apply the Award monies for the purposes specified in this Contract; or
- 8.2.3 the Recipient is in breach of any other provisions of this Contract;
- 8.2.4 the Awardee(s) cease(s), in the reasonable opinion of the Academy to have suitable employment for the completion of the Programme of Activities; or
- 8.2.5 the Recipient receives funding from alternative sources for the Programme of Activities which covers the same costs as are funded under this Contract (without the prior agreement of the Academy): or
- 8.2.6 The Academy, acting reasonably, considers the Awardee(s) unfit or unable to pursue the Programme of Activities in accordance with the requirements of this contract, if the facilities required for the Programme of Activities are not available, or if for any other reason the Programme of Activities cannot be fulfilled: or

Denotes a required field.

Goals and Objectives

please state three main objectives for the exchange.

1. To inculcate Innovative Pedagogy in Engineering Education and cutting edge MOOC Instructional design blended with appropriate face to face instructional strategies to enhance Engineering Education. This will be done by designing Mini MOOCs with the help of FutureLearn (UK) and then further scaling up the activity with the help of lead zonal institutions. The Main initiative will be to develop Mini-MOOCs Designing and Developing Mini-MOOCs.

To make the initiative as PAN-India initiative by having 11 zonal lead institutions who will further take up the lead to train the Tier-2 and Tier-3 Institutions in their region

3. To enhance the capacity of the teachers and driving technology enhanced education adoption in Universities. We will be introducing the technology, skills, resources and training required for developing such MOOCs at the institutional level.

The main activities to be undertaken

This is a key section of the application.

Describe the programme of work to be undertaken during the programme including how novel, realistic/ambitious the project is. Outline the specific deliverables anticipated and appropriate milestones by which to measure progress. There ption to upload any supporting documents, figures and diagrams in the next question. Your description should include:

aescription of the agreed work programme(s), including a breakdown of tasks.

context of the proposed research, including its application (academic and/or industrial)

context of the proposed programme and the need it addresses a detailed technical case for the programme of work.

Please note: All responsibility for arranging travel and accommodation will lie with researchers and institutions involved You have up to 1000 words to answer this question.

Need of the proposed programme: India has seen a considerable growth in the Higher Education in in last decade. There is a urgent need or the proposed programme; mala has seen a considerable growth in the riigher Education in its last decade. I nere is a urgent need to fill the gap regarding quality of delivery of education. In parallel there is also a huge change coming by the way of new interventions due to advance technology, online learning, availability of internet etc. Both factors of quality as well as introduction interventions due to advance technology, online learning, availability of internet etc. Both factors of quality as well as introduction of new concepts delivery need to considered together, so that the higher education system does not lag as far as the latest

As of now, we had seen a lot of progress in teaching pedagogy by the use of multimedia content, flipped classroom, blended learning and online learning. Different systems and concepts has been successful by the initiatives of many companies and learning and online learning. Different systems and concepts has been successful by the initiatives of many companies and learning and online learning. Different systems and concepts has been successful by the initiatives of many companies and learning and online learning. Different systems and concepts has been successful by the initiatives of many companies and learning and online learning. Universities in the world. In india, it is still at the nascent stage. Instructors, Institutions, educators and managers need to be initiated and trained. They also need a hand-holding to build a prototype and working model of state of the art modules and also a sample dry run of these concepts at their own institutions. So to fulfil this need and to spread this culture in the country; we have sample dry run of these concepts at their own institutions. So to fulfil this need and to spread this culture in the country; we have selected 10 partners across India which cover 10 geographical zones of India. These will be called Zonal Lead Institutions and will selected 10 partners across India which cover 10 geographical zones of India. These will be called Zonal Lead Institutions and will be level below the overall lead institution (Thapar University). These Institutions has further agreed to train 10 more by the level below the overall lead institution (Thapar University). These Institutions will be benefited by this recommendation to the second level. So. In Total 110 institutions will be benefited by this recommendation. level below the overall lead institution (Thapar Onliversity). These institutions has further agreed to trail
 gions in their zone in the second level. So, In Total 110 institutions will be benefited by this programme.

ntext of the Proposed Research and its application: We propose to develop 4 Mini-MOOCs. Two of these will be on the core ncept (i.e. how to design Mini-MOOC, How to manage a Mini-MOOC from inception to delivery). Two more Mini-MOOCs will be model MOOCs showcasing the best practices introduced in the first two Mini-MOOCs.

Major List of ward class content for these four Mini-MOOCs with the help of available expertise and also with the help of UK and Industry partner. To decide and document the instructional strategies to be used along with the delivery of mini-MOOCs. industry parties. The first phase is a second with the delivery of minimus oct.

2. To run these Mini-MOOCs on FutuerLearn Platform so that these can become usable by the institutional users in the first phase, it

will also help to dry-run and test the efficacy of these, so as to get the actual feedback from the users.

3. To Train the instructors from the Lead Zonal Institutions by holding Train-The-Trainer workshops

Io Italia are insulated by faculty exchanges with in the institutions as per the requirement.

Description of the agreed work Programme and detailed description:

1. The hierarchical model of the collaboration between lead institution, UK partner, Indian Industry and Supporting institutions has been given in the first page of the file "Diagrams and Description.pdf"

2. Second page of the file gives the details of 11 different zones in which India has been categorized and also gives the corresponding list of institutions who are representing each zone. It also gives the names of the lead contact from different zones and also the states that will be catered by that zone. and also the states that will be calered by that zone.

3. Third page gives the relevance of different institutions involved in the programme 4. Fourth diagram gives the flow of activities to be undertaken in the programme

and also the states that will be catered by that zone.

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o and sample practice Mini MOOCs along with the first two MOOCs will act as the best practice examples, which can be further on up by hub institutions. reluation of the impact of MOOCs: It will give a clear results of the impact of Mini-MOOCs a) the institutions involved b) the staff

elved in delivering or supporting/integrating them and c) the learners. This type of study has not been done so far in an holistic oner. It will provide a good set of recommendations to practitioners and world at large regarding these technologies. Creating a network of Instructors committed to take the higher education in India to next level of excellence

It can be of great help in National Skill Development, wherein many such courses of 2-3 weeks can be developed for immediate

ortification and employment in the vast skill based industry in India. Elkely to be followed up by new initiatives in skilled India, rural empowerment and digital India based on the success of the

project successful implementation will create a synergy of resources, individuals and well-oiled network which can take up more

challenging tasks in the near future

Choice, role of and benefits to the industry partner

Provide justification for the choice of industry sponsor including the strategic importance of this relationship to you and your institution. Specify the exact role of the industry partner in this programme. Provide details of what has been achieved so far through any existing collaboration and what is the overall perceived long term vision for this relationship.

You have up to 350 words to answer this question.

We have existing collaboration with the Industry partner from last 10 years. Till now more than a thousand students have been trained on the industry relevant technologies through the offerings under the framework of "campusconnect". There have been roadshows, faculty exchanges, Faculty Enablement Programmes, Train-The-Trainer workshops, sabbaticals. Infosys has also sponsored few programs with us. Resource persons have traveled to contribute their knowledge to and fro between us and Infosys. s is already planning to go for MOOCs to strategically enhance their higher education offerings. We stand to gain by the ork of institutions working under campusconnect umbrella with Infosys. That will help to impart the learning from this produced and the project and they can be involved under the framework of our collaboration with Infosys. So, it will help in a big way on long term basis.

Choice, role of and benefits to the UK partner

Provide justification for the choice of the UK partner including the strategic importance of this relationship to you and your institution. Specify the exact role of the UK partner in this programme. Provide details of what has been achieved so far through any existing collaboration and what is the overall perceived long term vision for this relationship along with expected benefits to the UK partner and UK in general which will result from the collaboration.

You have up to 350 words to answer this question.

Our UK Partner is FutureLearn which is having very good reputation and experience in the field and domain of the project. FutureLearn wants to help and support Indian universities in improving their engineering education and is pleased to offer their expertise and platform capabilities in developing and delivering high quality social online courses to large numbers of students. FutureLearn is supporting this initiative as it aligns well with their strategy of expanding their presence in India (a major market for se open online courses). Cultivating relationships with Indian universities who may use their platform for teaching students hers, and widening access to lifelong learning to individuals across India is one of their ambitions.

ed benefits from Future Learn for this initiative: aining Thapar University on how to build massive courses according to their pedagogy, which will be delivered remotely and oviding a partnership manager to advise on course design for the first two courses. To provide an expert who will fly to India to pport training, principally for the design of the first massive course and also to provide Quality Assurance for the four mini-MOOCs uilt by Thapar University to check for technical quality and offer feedback on the courses. However, this support would not include irect course editing. Future Learn will provide relationship and administrative support to use the FutureLearn platform to deliver one run of each of the four courses developed by Thapar University. UK Partner will also provide administrative support for up to 11 other universities to have access to the course creation tools of the platform. Each university can invite a small cohort (less than 50 students) into one private course they build to test its design.

So Future Learn is strategically important in short, medium and long term for the project.

Intended ways of maximising the benefits, building capacity and sharing lessons resulting from the project

The Academy wishes to support collaborations with wide and lasting impact and requires applicants to reserve 5% of total programme costs toward this end. As such please detail plans for activities you will undertake to maximise the benefits of the programme, particularly amongst other Tier 2 and Tier 3 engineering universities. These may be other/further collaborations, programme, particularly amongst other programme, particularly amongst other programment teaching activities, training workshops, public engagement teaching. programmation activities, training workshops, public engagement, teaching, routes to exploitation/commercialisation.

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Annex B: APPLICATION FORM

Additional, Amended, or Excluded Activities (if any) (see clause 3.4)

udget Template Upload

please upload a detailed, clear budget spreadsheet which outlines the total costs of your work programme and clearly shows pease upload a decrease of some spreadsneet which outlines the total costs of your work property ou are requesting from the Academy and the contribution your partnership will offer.

Funding guidelines:

The total contribution from the Academy cannot exceed £50,000.

- This programme offers financial support for travel, subsistence and salary support costs related to your proposed activities amongst industry and academic partners in India and the UK.
- The Academy requires applicants to reserve 5% of total project costs for activities related to upscaling programme impact, building capacity and sharing lessons particularly amongst the wider network of Tier 2 and Tier 3 Indian engineering universities. Please cost this in to proposals and propose activities which may promote this end.
- are is no set limit on how much you can claim in any one category apart from consumables and other costs, where no more than 10% of the total cost may be requested. 'Consumables' include project specific costs of small equipment, computer software licenses or publication costs. Examples of 'other costs' are conferences and seminar fees.
- Please note that the funding provided by this scheme is not calculated on the basis of full economic costs.
- The totals may come to more than the maximum funding you can request under this scheme. Additional costs must be met by the participating institutions. If the amount noted is higher than the award can provide, please state the contribution to be made by each institution.
- The funding provided cannot be used to pay for purchases of large equipment and research infrastructure.

Please note that budgets submitted at the Expressions of Interest stage were only indicative and are thus non-binding. Budgets may be revised based upon above criteria and detailed project needs.

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flename	10/01/2016 16:33:58
budget sheet Thapacxis	

Justification of Costs

Please provide a brief explanation of all costs, covering both what the funds will be spent on and why. We require evidence that you have researched the costs for which you are seeking support; for example you could include the cost per night of accommodation. Travel costs should be based on the most suitable and economical form of travel. Subsistence costs should accommodation at the host institution/s reflect the normal rates applied at the host institution/s.

Please Note: This programme offers support for travel, subsistence and salary support costs related to conducting collaborative activities amongst industry and academic partners in India and the UK.

Lyersity/ Academic Institution Letters of support

prequire letters of support from each University/ Academic institution taking part in the programme.

etters of support should be written by Applicants' respective Heads of Departments (or Heads of Faculty if either of the solicant is the Head of Department). As a minimum the Author should include:

Confirmation of their support for the application

Why they support the project

How it fits in with the department's aims.

What form the support will take (financial, staff time, guidance, facilities)

The letters should be on headed paper, a maximum of two pages long, signed by the author, and uploaded by the Applicant as pdfs.

Please note: The quality of institutional support is a key factor in the strength of the application

Te name	Date uploaded	
Chirkara PSIT ACET Support letter.pdf	10/01/2016 16:51:24	
PupportLetter.pdf	10/01/2016 16:46:25	
FCRCE VIIT Keerti Support Letter.pdf	09/01/2016 17:15:40	
Amrita Support Letter.pdf	09/01/2016 17:06:34	
SRKR Support Letter.pdf	04/01/2016 13:48:53	
NIT Silchar Support Letter.pdf	04/01/2016 13:47:49	
NIST Support Letter.pdf	04/01/2016 13:47:21	
Marwadi Education Foundation-Support Letter.pdf	04/01/2016 13:47:13	
BIT Support Letter.pdf	04/01/2016 13:46:49	

Industry Partners Letters of support

quire letters of support from each Industry partner institution taking part in the programme.

Letters of support should be written by the head of the relevant business unit with which the programme is to take place. As a minimum the Author should include:

Confirmation of their support for the application

Why they support the project

How it fits in with the business's aims.

What form the support will take (financial, staff time, guidance, facilities)

The letters should be on headed paper, a maximum of two pages long, signed by the author, and uploaded by the Applicant as pdfs.

Please note: The quality of institutional support is a key factor in the strength of the application

File name	Date uploaded	44-91
Infosys Support Letter.pdf	09/01/2016 17:04:43	
FutureLearn Letter of Support.pdf	09/01/2016 17:04:33	age 12 / 14

11.1 This Contract shall be governed by and construed in accordance with English law and all parties agree to submit to the exclusive jurisdiction on the English Courts as regards any claim or matter arising under the Contract.

Rupay hay

IN WITNESS whereof this Contract was signed on the below date

r) PATIALA 147004 (INDIA)
√ V	stamp of behalf of Thapar University
Date:	18 03 2016
Name:	Prakash gobalen
Position:	
Stamp	

Signed on behalf of the Royal Academy of Engineering
Date:

P. GREENISH

-

Position:



ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA Near Village Bhat, Via Ahmedabad Airport & Indira Bridge, P.O. Bhat - 382 428, Dist. : Gandhinagar, Guierat. India.

Tel.: +91-79-23969153, 23969158, 23969159, 23969161

Telefax : +91-79-23969164 Website: www.ediindia.org

s. B. Sarcen S. D. D. & Project Director: DST-NIMAT

EDII/DST-NIMAT/18-19/007

Date: 03/07/2018

SPEED POST

Dr. Arun Arora Principal Bhilai Institute of Technology G. E. Road, Bhilai House Durg - 491 001 Chhattisgarh

OFFICE OF PHINCIPAL Bhilai Inst of Tech; Ourg DIARY NO 1686

Kind Attention: Dr. Ashok Kumar Chandra, Assistant Professor (Dept. of Management)

Dear Sir,

Sub: DST-NIMAT Project 2018-19: Sanction Order

Greetings from EDII, Ahmedabad!

This is with reference to your proposal submitted for conducting activities / programme(s) under the segis of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Govt. of India, New Delhi.

We are happy to inform you that the following activities / programmes have been sanctioned:

Sr. No.	Activity / Programme	No.	Amount in Rs.	Locations
1	Faculty Development Programme (FDP)	1	250000	1) Durg
	Total	1	250000	

You are requested to please go through the enclosed Guidelines / Terms & Conditions as it is mandatory to follow the same.

Picase note that the first installment is to be released on receipt of the following documents;

1. Duly Signed Agreement 2. Duly Signed "Terms & Conditions" (each Page)

3. Action Plan [Annexure-1]

4. Bank Details [Annexure-IA]





The funds will be transferred through RTGS/NEFT. Please make sure that the above said documents must reach us as early as possible, but not later than ONE MONTH of receiving the same may be considered as your unwillingness to take up the programme(s).

As per point no. 11 of the enclosed Terms & Conditions, it is expected to generate results in a per point no. 11 of the enclosed Terms & Conditions, it is expected to generate results in the required strategy to show case desired result.

For any additional information, please contact either me (Email ID: sareen@ediindia.org, Mobile: 09925110040) or my colleague Mr. Prakash Solanki (Email ID: polanki@ediindia.org, Mobile: 09723816384).

We look forward to have a long term professional relationship.

Thanking you, with regards,

(S. B. Sareen)

Encl.: a. a

Annexure - IV

DST - NIMAT Project 2018-19

UTILIZATION CERTIFICATE

(To be sent in Duplicate)

For the financial 2018-19 (ending 31st March)

1. Title of the Project / Scheme : Entrepreneurial Skills Development for Rural Agro, Food

Processing and Healthcare based Start-Ups

2. Name of the Organization

: Bhilai Institute of Technology, Durg C.G. India

3. Principal Investigator

: Dr. Ashok Kumar Chandra,

Department of Management, BIT Durg

EDII, Ahmedabad Letter No. & date : EDI/DST-NIMAT/18-19/007, Dated: 03.07.2018
 Sanctioning the project

5. Amount brought forward from the previous financial year

Quoting EDII, Ahmedabad Letter No. & date in which

: EDII/DST-NIMAT/18-19/RLS-I/339

: DATE: 21/08/2018

6. Amount resolved from EDH during the financial year:

No. & date sanctioned

Amount

(Please give No. & date of sanction showing the amount paid) : EDELDST-NUMAT/18-10/RLS-LT339

2,50,000/-

7. Total amount that was available for Expenditure

: 2,00,000/-

Date: 21.08.2018

(excluding commitment's) incurred during the financial year

(Sl.No. 5+6)

8. Actual expenditure (excluding Commitments)

: 2,42,185/-

Incurred during the financial year

9. Unspent balance refunded if any

: NA

(Please give details of cheque No. etc.)

10. Balance amount available at the end of financial year

: NA

11. Amount allowed to be carried forward to the next

Financial year vide letter No.

12. Balance Amount to be received from DST-NIMAT

: 42,185/-

Certified that the expenditure of Rs. 2,42,185/- (Rupees Two lakh forty two thousand one hundred eighty five only) mentioned against Col. 8 was actually incurred in the projects/scheme for the purpose I which it was sanctioned.

Date: 05/02/2019

Signature of Principal

Investigator

Signature of Accounts Officer Prof. Or Arun Arora)
ignature of the Head of rora)
the Organization

the Organization Bhilai Institute of Technology (Seth Balkrishan Memorial) Bhilai House ,DURG-491001

Chhattisgarh, INDIA

ACCEPTED AND COUNTERSIGNED

30 FINDAY White . ceens



छत्तीसगढ़ विज्ञान एवं प्रौद्योगिकी परिषद Chhattisgarh Council of Science & Technology

Vigyan Bhawan, Vidhan Babha Rond, Daldat Seoni, Raipur, (C. G.) 492 001 E-nail doccost@gmail.com

CCOST/MRP/2017

Sanction Order

Te

Principal Bhilai Institute of Technology. Durg (CG)

Sub:Sanction of Mini Research Project entitled *Towards improvisation of hybrid biomass by gelation technique for preparing an integrated de-fluoridating unit to alternative the contaminants from groundwater of fluoride affected area'.

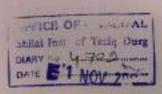
Ref: Mini Research Project proposal of Dr. Yashu Verma, Assistant Professor, Department of Applied Chemistry, Bhilai Institute of Technology, Durg (CG)

Project Investigator: Dr. Yashu Verma, Assistant Professor, Department of Applied Chemistry, Bhilai Institute of Technology, Durg (CG).

Chhattisgarh Council of Science & Technology hereby acknowledges that the Mini Research Project submitted and presented by the Principal Investigator Dr. Yashu Verma before expert committee of the Council on 28/08/2017 and as per the recommendation of the committee found it fit for surction.

The Council hereby sunctions Rs.4.13,600/- (Rs. Four Lakhs Thirteen Thousands Six Hundred only) for completing the project, within a period of two years. The sanction is accorded with following terms and conditions:-

- The Grant -in Aid would be released through the Head of the Institution who would be responsible for proper utilization of the grant
- This sanction is subject to the condition that the grantee institution will familish to the Council of Science & Technology, Financial year wise utilization Certificate (UC) in the proformal prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress seport at the end of each financial year duly reflecting the interest earned/accused 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.



Page 1 of 5



Chhattisgarh Council of Science & Technology

Vigyan Bhawan, Vidhan Sabha Road, Daldal Seoni, Raipur (C. G.) 492 014 Email: dqccost@gmail.com

Prof. M. M. Hambarde

Director General

/CCOST/2017 No. _ Dated: / /2017

To Principal Bhilai Institute of Technology, Durg (CG)

Sub: Release of first year installment (Project Fellow salary, Contingencies & equipment) of Mini Research Project.

Ref: 1. Mini Research Project of Dr. Ashutosh Narayan, Professor, Department of Applied Mathematics, Bhilai Institute of Technology, Durg (CG).

2. Council sanction letter no. 2259/CCOST/MRP/15, Raipur, dated 23.12.2015.

With reference to above cited, sanction is hereby accorded for Rs 2,23,000.00 (Rs. Two lakhs twenty three thousand only) Vide Cheque No. 532883 dated 11.01.2017 for first year installment (Project Fellow salary Rs. 1,20,000/-, Contingencies Rs.15,000/- and equipment Rs.88,000/-) of Mini Research Project entitled "Stability of the oblate infinitesimal in the elliptic restricted three body problem with oblate radiating primaries". The amount would be released in favor of Dr. Ashutosh Narayan, Professor, Department of Applied Mathematics, Bhilai Institute of Technology, Durg (CG).

Please acknowledge the receipt of above cheque and utilization certificate and progress report is submits within time.

Encl: As above.

(Prof. M.M. Hambarde)

Copy to: No 1574 2116 62 12017

Dr. Ashutosh Narayan, Professor, Department of Applied Mathematics, Bhilai Institute of Technology, Durg (CG).

2. Office copy.

(Prof. M.M. Hambarde)



ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA

Near Village Bhat, Via Ahmedabad Airport & Indira Bridge, P.O. Bhat - 382 428, Dist. : Gandhinagar,

Tel.: +91-79-23969153, 23969158, 23969159, 23969161

Telefax: +91-79-23969164

Website: www.ediindia.org

S. B. Sareen

Sr. Faculty & Project Director: DST-NIMAT

EDII/DST-NIMAT/17-18/004

Date: 26/04/17

SPEED POST

Dr. Arun Arora Principal Bhilai Institute of Technology G. E. Road, Bhilai House Durg - 491 001 Chhattisgarh

OFFICE OF PRINCIPAL hitet Inst

Kind Attention: Dr. Sanjay Guha, Chief Coordinator

Dear Dr. Arun Arora,

Sub: DST-NIMAT Project 2017-18: Sanction Order

Greetings from EDII, Ahmedabad!

This is with reference to your proposal submitted for conducting activities / programme(s) under the aegis of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Govt. of India, New Delhi.

We are happy to inform you that the following activities / programmes have been sanctioned:

Sr. No.	Activity / Programme	No.	Amount in Rs.	Locations
1	Faculty Development Programme (FDP)	1	250000	1) Durg
	Total	1	250000	

You are requested to please go through the enclosed Guidelines / Terms & Conditions as it is mandatory to follow the same.

Please note that the first installment is to be released on receipt of the following documents;

- I. Duly Signed Agreement
- 2. Duly Signed "Terms & Conditions" (each Page)
- 3. Action Plan [Annexure-I]
- 4. Bank Details [Annexure-IA]



The funds will be transferred through RTGS/NEFT. Please make sure that the above said documents must reach us within ONE MONTH of receiving this sanction letter. Non receipt of the same may be considered as your unwillingness to take up the programme(s).

As per point no. 12 of the enclosed Terms & Conditions, it is expected to generate results in terms of unit establishment from programmes like; EDP, WEDP and TEDP. Hope, you will design the required strategy to show case desired result.

For any additional information, please contact either me (Email ID: sareen@ediindia.org, MOBILE: 099 25 11 00 40) or my colleague Mr. Prakash Solanki (Email ID: psolanki@ediindia.org, MOBILE: 097 23 81 63 84).

We look forward to have a long term professional relationship.

Thanking you, with regards,

(S. B. Sareen)

Encl.: a. a

DST - NIMAT PROJECT 2017 - 18

Entrepreneurship Development Institute of India (EDI), Ahmedabad

The National Science & Technology Entrepreneurship Development Board, DST, Govt. of India Agreement between EDI and Programme Implementing Agency (PIA)

Entrepreneurship Development Institution	A STATE OF THE PARTY OF THE PAR
CALE BOAD DISTON	te of India (henceforth referred to as EDI) having its Head Office 382 428, Dist. Gandhinagar (Gujarat) and TECHNOLOGY, BHILAT HOUSE, - DURGI, CHHATTISHGIAR P 491001
Name & address of the Programming Agreement on 25 05 2017 (Date) at	CHHAT TISHGARH - 491001
BHILAT INSTITUTE OF Thas agreed to conduct _ EAC(s) /	ECHNOLOGY DURG: C.Gr. (Name of the PIA) EDP(s) / WEDP(s) / TEDP(s) / FDP(s). The ted as per the terms and conditions enclosed.
	10)

General Guidelines

- The grant being released should be exclusively spent on the specified purpose for which it has been 1. sanctioned within stipulated time. Any unspent balance out of the amount sanctioned would be surrendered to EDI, Ahmedabad. Carry forward of unspent funds to the next tinancial year for utilisation for the same purpose may be considered only with the specific approval of the EDI, Ahmedabad.
- The Programme Implementing Agency will furnish progress report of the work on the programme 2. from time to time. In addition, appropriate persons may visit the Programme Implementing Agency periodically for ascertaining the progress of work and resolve any difficulties that might be encountered in the course of implementation. During the progress of the project, the PIA will provide all facilities to the Visiting Persons. On completion of the programme, consolidated report of the work done on the subject in a bond from shall be sent to EDI, Ahmedabad.
 - The Programme Implementing Agency shall furnish to EDI, Ahmedabad, Utilisation Certificates (copy enclosed) and an Audited Statement of Accounts pertaining to the grant within three months of 3. completion of the programme / activity sanctioned.
 - The Programme Implementing Agency will maintain separate audited accounts for this project. If it is found expedient to keep a part or whole of the gram in a bank account earning interest, the interest earned should be reported to the EDI, Ahmedabad. The interest thus carned will be treated as a credit to the PIA to be adjusted towards further instalments of the grant, if any.
 - The Programme Implementing Agency will not extrust the implementation of the work for which the grant is being sanctioned in another organization and to divert the grant receipt as assistance to the 5. latter institution. In case the PIA itself is not in a position to execute or complete the project, it would be required to refund the entire amount of grant-in-aid received by it to EDI, Ahmedabad.

P.T.O.



Department of Management

Balled Institute of Technolo (Seth Belkrishen Momorie BhHal House , DURG-4910 battiscarb, INDIA

Now in witness whereof the parties to this present have here unto signed in this respective names and affined

their respective seal, the date and the year herein above written.

Signed, Sealed and Delivered by:

26 513 0

(Implementing Agency) (Dr. Arun Arora) **Principal** Bhilel Institute of Technology (Seth Belkrishan Memorial) Bhilai House , DURG-491001

Chhattisgarh, INDIA

Place: DURG

Date: 25/05/2017

B. Sareen Project Director, DST-NIMAT

Witnesses:

1. Signature: (on the behalf of the Agency)

Name & Address of the Witness: DR. SANJAY GUHA

Deportment of Management Bhilai Institute of Technology,

Bhilai House, G.E. Road

Duza, C.G - 491001

(Dr. Sanjay Guha)

Department of Management Bhilei Institute of Technology Bhilai House, Durg - 491001 C.G. (INDIA) Signáture:

(on the behalf of EDI) Name & Address of the Witness:

> Prakash Solanki Faculty & National Coordinator Entrepreneurship Development Institute of India





TERMS AND CONDITIONS FOR CONDUCTING FACULTY DEVELOPMENT PROGRAMME (FDP)

- FDPs of two week duration are to be conducted at the locations indicated in the Action Plan. Any change in the Action Plan will have to be informed to EDU well in advance for approval.
- Each FDP should have about 20-25 faculty members of Science & Engineering Colleges, Polytechnics,
 B-Schools & institutions involved in entrepreneurship development.
- Programme Implementing Agency may like to provide inputs as per the suggested schedule placed at EDII website (www.ediindia.org).
- 4. Reading/reference material to be provided to the participants and the same can be downloaded from EDH website (www.ediindia.org). In case any additional material is used during the programme, a copy of the same may please be submitted to EDH.
- Financial assistance will be made available to the PIA @ Rs. 2,50,000/- per FDP as per the budget break-up given below:

Sr. No.	Expenditure Head	Amount in Rs. 67,500.00
1	Training Expenses	30,000.00
2	Travel & Factory visits	32,500.00
3	Miscellaneous & contingencies	26,000.00
4	Administrative expenses	94,000.00
5	Lodging & Boarding expenses	2,50,000.00
	Total	

- First installment i.e., 70% to be released on receipt of the duly signed Agreement, Terms & Conditions along with the Action Plan (as per Annexure I) and Bank detail (Annexure-I(A)).
- Statement of Programme Completion (as per Annexure II) should be submitted separately for each programme within one week after completion of programme.
- Second and final installment i.e., 30% to be released on successful completion of the programme, submission of Post Programme Report within a month after completion of each programme (Soft Copy in Microsoft Word Format on CD & Hard Copy in Spiral Binding) as per the Proforma placed at in Microsoft Word Format on CD & Hard Copy in Spiral Binding) as per the Proforma placed at Expenditure (see Annexure III)
 EDI website; www.ediindia.org), submission of Statement of Audited Expenditure (see Annexure IV).

126/5/17

(Dr. Arun Arota)

Principal

Bhilet Institute of Technology
(Seth Belkrishan Memorial)
Bhilet House , DURG-491001
Chiattingerh, iNDIA

26/5/17 Guha)
(Dr. Sanjay Guha)
Head
Head

Department of Nanagement

Department of Nanagement

Department of Technology

Bhilai institute of Technology

Bhilai House, Durg - 491001 C.S. (INDIA)

Bhilai House, Durg - 491001

Signature of Head of the Legitime
Principal
Bhilei Institute of Tostmology
(Seth Belkrishan Memorial)
Bhilai House , DURG-491001
Chhattisgarh, INDIA



Chhattisgarh Council of Science & Technology
M. I G. 25, Indravati Colony, Raipur, (C. G.) 492 001

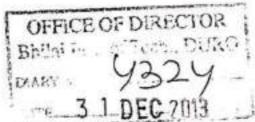
Phone: 0771 2434569; FAX: 0771 2434093; Email: dqccost@gmail.com

No. 805.4..../CCOST/MRP/2013

Raipur, Date 27 1 12 /2013

Sanction Order

To Principal Bhilai Institute of Technology, Bhilai House, <u>Durg</u> (CG)



Sub: Mini Research Project entitled 'Development of meteorological information system (Metls): A case for rural areas of Bilaspur' District'.

Ref: Mini Research Project proposal of Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications, Bhilai Institute of Technology, Durg (CG)

Project Investigator: Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications, Bhilai Institute of Technology, Durg (CG).

Co-Project Investigator: Dr. Manoj Kumar Kowar, Professor, Bhilai Institute of Technology, Durg (CG).

Sanction is hereby accorded for Rs.4,99,500/- (Rs. Four Lakhs Ninety Nine Thousand Five Hundred only) for three years duration. The amount is being released on the following terms and conditions:-

The Mini research projects must be pertaining to Socio-Economic Development of the State.

- In line with the Council's objectives it is imperative to support only such Research & Development Mini Research projects which are relevant to the achievement of specific objectives of the Council as follows: "To identify and utilize areas of science and technology for-
 - a. Achieving socio-economic development of the state and
 - b. To achieve the objectives of tackling the problems particularly of backwardness, unemployment and poverty in the rural areas, and among the under-privileged section of the society".

Mini research project will be sanctioned to permanent faculty member(s).

Suitable accommodation and other necessary facilities, equipment, etc. should be made available by the Institution for the research project. The Grant -in - Aid

2. 3.

- would be released through the Head of the Institution who would be responsible for proper utilization of the grant.
- Annual progress report of the work carried out is required to be submitted to the Council within one-month time limit.
- The Council reserves the right to terminate the project if progress of the work is not found satisfactory, in the opinion of the Council.
- Publication of the research data of the project should be done only after taking approval from the Council, for which a copy of research paper should be submitted.
- Accounts duly supported by vouchers for the expenditure incurred on salary.
 contingencies, etc. should be submitted regularly through the Head of the
 Institution/Research Organization.
- Procedure laid down for appointment of Staff, Purchase of equipment, materials by the Institution concerned must be strictly followed.
- Prior approval of the Council for purchase of equipment costing more than Rs. 10,000/- would be necessary. The Council normally does not approve the purchase of any major equipment from its grants, except for exceptional cases.
- 10. Proper record of purchase, stock entries, breakages, & losses should be maintained for verification, and submitting the verification report to the Council. On completion of the project the equipment and other articles purchased from Council fund should be transferred to the stock books of the Institution.
- The Institution shall be responsible for submitting the annual and final audited statement of accounts and utilization certificate for the grant released by the Council.



Chhattisgarh Council of Science & Technology

M. I. G. 25, Indravati Colony, Raipur, (C. G.) 492 001
Phone: 0771 2434569; FAX: 0771 2434093; Email: dgccost@gmail.com

Prof. M. M. Hambarde

Director General

No. <u>1361</u> /CCOST/2014 Dated: <u>10 / 10</u> /20124

To Principal Bhilai Institute of Technology, Bhilai House, Durg (CG)

Sub: Release of grant for purchase of equipment under Mini Research Project.

Ref: Application of Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications, Bhilai Institute of Technology, Durg (CG).

Sanction is hereby accorded for Rs.57,000.00 (Rs. Fifty seven thousand only) Vide chaque no. 937412 dated 29.09.14 for purchase of equipments (Laptop, Pen drive, USB Hard disk) under the approved objectives of the mini research project entitled 'Development of meteorological information system (Metls): A case for rural areas of Bilaspur' District'. The amount would be release in favor of Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications, Bhilai Institute of Technology, Durg (CG).

The utilization certificate and progress report be submitted within time.

Encl: As above.

(Prof. M.M. Hambarde)

Copy to:

1 Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications, Bhilai Institute of Technology, Durg (CG).

2. Office copy.

(Prof. M.M. Hambarde)



Chhattisgarh Council of Science & Technology

Vigyan Bhawan, Vidhan Sabha Road, Daldal Seoni, Raipur, (C. G.) 492 001 Email: doccost@gmail.com

Prof. M. M. Hambarde

Director General

No. <u>JUGG</u>/CCOST/2017 Dated: 31 / 01 /2017

To

Principal

Bhilai Institute of Technology.

Durg (CG)

993 3 FEE 2017

Sub: Release of third year installment of Mini Research Project.

Ref: 1. Mini Research Project of Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications. Bhilai Institute of Technology, Durg (CG).

Council sanction letter no. 8054/CCOST/MRP/13, Raipur, dated 27.12.2013.

With reference to above cited, sanction is hereby accorded for Rs 1,32,500.00 (Rs. One Lakh thirty two thousand five hundred only) Vide Cheque No 532939 dated 17.01.2017 for third year installment of Mini Research Project entitled 'Development of meteorological information system (Metls): A case for rural areas of Bilaspur' District'. The amount would be released in favor of Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications, Bhilai Institute of Technology, Durg (CG).

Please acknowledge the receipt of above cheque and utilization certificate and progress report is submits within time.

Encl: As above.

(Prof.M.M. Hambarde)

Copy to:

 Dr. Sanjeev Karmakar, Associate Professor, Department of Computer Applications. Bhilai Institute of Technology, Durg (CG).

Office copy.

(Prof. M.M. Hambarde)

All Pills





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

BRNS Secretariat, 1st Floor, CC. BARC, Trombay, Mumbai-400085. Phone: 25591140 FAX: 022-25505151.

E-mail: pdhag@barc.gov.in

No: 36(4)/14/90/2015-BRNS/36011

Date: April 22, 2019

OFFICE MEMORANDUM

Sub: R/P entitled "Spatial distribution of uranium and associated water quality parameters in DURG and five nearby dis" under Dr. Santosh Kumar Sar, Bhilai Institute of Technology, Durg, Chatisgarh bearing sanction 36(4)/14/90/2014-BRNS with NRFCC, BRNS.

In continuation of this Department's even number dated 15.09.2017, on the recommendations of Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the sanction of the President of India to incur the expenditure of Rs. 3,84,902/- (Rupees Two Lakh Forty Four Thousand Nine Hundred Two Only) as final settlement as detailed below:-

Remaining 7.5% overhead -

Rs. 244902/-

2. HRA for Staff Dr. Shweta Singh, for the period from 01.09.2016 to 31.08.2018 @ Rs. 7500/- p.m. Rs. 180000/-

Total

Rs. 384902/-

- The expenditure involved is debitable to: 04 34 01 00 004 27 0231 2.
- This issues with the concurrence of Competent Authority. 3.

(Dhananjay G Parulekar) Programme Officer

Encl.: Bill

Pay & Accounts Officer, DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001.

Copy forwarded to:

Registrar, Bhilai Institute of Technology, Durg, Chatisgarh 1.

Principal Investigator(PI): Dr. Santosh Kumar Sar, Bhilai Institute of Technology, Durg, 2. Chatisgarh- File is closed herewith.

AAO(Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001. 3.





Chemistra of Porta (DAE) Department of Atomic Learnin (DAE) Resent of Plansment in Number Sciences (DENE)

Dr. Dobanik Key Programme Officer (NRFCC) Billing Semisters for Poor. CC, MARC, Tombus Montas Assessing 491-225500048 Fax 225500048 Event Anny@ban grant

No. 38041/1005/0015/8/RMSI

OFFICE MEMORANDUM

B.B. R.P. emitted "Spatial distribution of unantum and accounted water quality parameters to groundwater/distribution water of north-eastern districts (Raigarh, Baltamper, Surgups, Jachpur) of Christiangeric under Dr. Wadhursea Pandey, Applied Chemistry, Bhila testicate of extractopy, Derg. Bhilas Nouco, District : Darg. PIN - Apt 601 houring specifion 36(4):14/25/2015-BRNSwish ABFCC. BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BINS), if an descent to covery the administrative approval and content of the Provident of Indo for the captioned project for the 2-years tegening from financial year 2015-2016 with a total great of Re. 18,95,000. (Report eighton links eighty one thereigned three handred only) for the project as under

ttom ut expenditure	7007 %	Tion 2
	(2015-2016)	(2016/2017)
Equipments	380000	
Staff Salary + JBT (1)	300000	300000
Technical Associations	16000)	96000
Concumables	80000]	80000
Turvet - Pi	140000	140000
Companions	(19/00)	35000
Dyerboods.	72450	46220
Yorkin (MARC)	1013450	697200

None * GPS, (Radiation Survey Motor, Water quality sensors)

JBF satisfy describined (§)25,000F p.m. for that two years and an redesignation by committee on in thair year as 567 (§) 24,000F p.m. RA satisfy nationalists (§) 36,000F p.m.

Overheads coloribited (i) 7.5% of the other heads except custinguity. The remaining 7.5% towards creftleads. (He. 1,18,650-) shall be retireded only an inscaling the requirements specified (See Armex B).

Last also directed to convey the samption of the President of Inde to four an expenditure of Rs. 49.73,4500-

a cowards grant for the year 2015-2016 .

4 The expenditure involved is displated to 04 3451 05 064 95 9251
This issues with the obscurrence of Scientific Secretary, 19993 and Will.

Debour 17

Dr. Dettanik Roy

Pay & Accounts Officer DAF, Municip 400 001.

Dopy towarded in



Public Financial Management System-PFMS

Welcome: Dr. AKHILESH MISHRA User Type: PD Financial Year: 2021-2022



Remarks: 1st instalment Capital

Logaut Change Password Login History English Y Help

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Agency
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Sanction Templates
Employee Info. System
Reports
Masters
My Schemes
Agencies
My Funds
Scheme Allocation
Register/ Track Seuse
Utilisation Certificate

	Payee Details		
Controller:	037-SCRINCE AND TECHNOLOGY	Sanction Status:	Approved
Sanction Numbers	DS1/TLT/DDP-28/2021(C)	Sanction Date:	13/19/2021
Sanction Type:	Transfer (DDO Bill)	Sanction Amount:	1277556
IFD Numbers	2698/FDy2021-22	IFD Date:	13/10/2021
Scheme:	1819-DINOVATION, TECHNOLOGY DEVELOPMENT AND DEFLOYMENT	PAOI	058296-PAO(D51), New Delhi

North East Expenditure

258297-DEPARTHENT OF SCIENCE & TECHNOLOGY (INCLUDING NCST)

Account Petails:

Grant	(For UT Grants Only)	Function Head	Object Head	Category	Amount	PAO PAO	Available Budget
048 - Department of Science and Technology		3425602007000 -BNOVATION TECHNOLOGY DEVELOPMENT AND DEPLOYMENT	SS - GRANTS FOR CREATION OF EAPTIAL ASSETS	S - VOTEO	1277550		1578156796

Agency	Bank Account No	Amount	Instrument Type	
Bhilai bistitute of Rechnology	32471126372 - BHILAI INSTITUTE OF 1 >	1,277,558,00	⊙ ittgs	

ePayment Details

Accredited Bank Not Payable UNION BANK OF INDIA . Amount 1277558 **IFSC Code** Party Name Party Account Amount Payee Remarks No BHILAI INSTITUTE (SBIN0006942 32471126372 1277558 1st instalment Capital

Note: If the IPSC Code is not automatically shows it means bank A/C is not validated. If payment process is urgent please key in the IPSC Code and process payment. Please ensure IPSC Code is correct.

Back

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OLD UC

No. DST/TDT/DDP-28/2021(C)

Government of India
Ministry of Science & Technology
Department of Science & Technology
(Technology Development & Transfer)
(Device Development Programme)

Technology Bhavan, New Delhi Dated 13.10.2021

ORDER

Sub: - Financial support for the project entitled "Design and development of cost-effective machine vision based smart drone recharged via wireless power transmission" by Prof. Shashwati Ray, Department of Electrical Engineering, Bhilai Institute of Technology, Chhattisgarh, G.E. Road, Durg-490020-Release of the first installment regarding.

Sanction of the President is hereby accorded to the approval to the above mention project at a total cost of Rs.44,49,180/-(Rs. Forty-four Lakh Forty-Nine Thousand One Hundred and Eighty Only) for the duration of 3 years. The detailed breakup of the grant for general as well as capital components are given below:

Total Project Cost = Rs.44,49,180/-Recurring Total Cost = Rs. 27,40,342/-Non- Recurring Total Cost = Rs. 17,08,838/-

		Non-Recurring Head (in Rs.			
SI. No.	Name of the equipment	1" year	2"d Year	3rd Year	Total
1.	FRAME All Carbon fiber frame with power distributor	200000			200000
2,	Custom made landing gear each set: 4 legs, 300mm height	60000			60000
3.	3D printed parts, 4 motor mounts, payload bay, battery bay	150000			150000
4.	Quotation for UAV sub components	1086500	XIE.		1086500
5.	Motor parts, battery and charger	1062500		Na al	1062500
	Total	2559000			2559000
	DST Share (Restricted)		2,58,292	1,72,988	17,08,838/-

- 2. The sanction of the President is also accorded to the release Rs.12,77,558/ (Rs. Twelve Lakh Seventy-Seven Thousand Five Hundred and Fifty-Eight Only) as the "Capital Component" to the "Principal, Bhilai Institute of Technology, Nagar, Chattisgarh" being the first installment of grant as mentioned above table under "Capital Component" for the above mentioned project.
- 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 grant 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. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. 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.
- 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 release Capital head grant.

- 6. The grant-in-aid being released is subject to the condition that
- a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of 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 be ensure submission of supporting documentary evidences with regard of the 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. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances will not be allowed to be adjusted against future releases.
- 8. As per the GFR 2017 Rule 230 (17) "the Grantee Institute should agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India"
- As per the GFR 2017, it is mandatory for the grantee organization to purchase the equipment through the Government e-Marketplace (GeM), to the extant available there as the project involves government funding.
- 10. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank 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.
- 11. 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.
- 12. 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.
- 13. 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 publication/ media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
- 14. 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.
- 15. It is mandatory to use EAT module in PFMS, failing which no further funds shall be released.
- Goods (Consumable/Equipment) available in GeM portal are to be procured mandatorily online through GeM only as per the provisions of Rule 149 of GFR.
- The expenditure involved is debatable to Demand No.88, Department of Science & Technology for the year 2021-22;

3425	Other Scientific Research (Major Head)	
60	Others	
60.200	200 Assistance to Other Scientific Bodes (Minor Head)	
70	Innovation, Technology Development & Deployment	
70.00.35	Grants-in-aid Capital for the year 21-22	
	Previous: TDP-NRDMS-3425.60.200.26.01.35	

Just 10124

18. The amount of release Rs.12,77,558/ - (Rs. Twelve Lakh Seventy-Seven Thousand Five Hundred and Fifty-Eight Only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to "Principal, Bhilai Institute of Technology, Durg, Chattisgarh".

The bank details for electronic transfer of funds through RTGS are given below:

Name of A/C Holder	Principal, Bhilai Institute of Technology 32471126372		
Bank A/C No			
Name of the Bank &branch	SBI, Alka Departmental Store, Sector 10, Bhilai		
RTGS/IFSC code	SBIN0006942		
MICR code	490002007		

- 19. As per Rule 234 of GFR 2017, the sanction has been entered at S. No. 164 in the register of grantsmaintained in the Division for the scheme DDP.
- This issues with the concurrence of IFD Vide their Concurring Dy. No. 2698/IFD/2021-22 Dated 13.10.2021.
- 21. NGO Darpan Id of the Bhilai Institute of Technology, Chhattisgarh, Durg-490020 is CG/2017/0157665.

(Dr. Akhilesh Mishra) Scientist-E Tel: 011- 26590254

To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

Copy of information and necessary action to: -

- The Principal Director of Audit, Scientific Department, IIIrd floor, AGCR Building, I.P. Estate, New Delhi.
- Drawing and Disbursing Officer, DST, Cash Section. (two copies)
- 3. Dr. Shashwati Ray,

Professor,
Department of Electrical Engineering,
Bhilai Institute of Technology, Chhattisgarh,
G.E. Road, Bhilai House Durg-490020

4. Principal,

Bhilai Institute of Technology, Durg-Bhilai Nagar, Chattisgarh G.E. Road, Bhilai House Durg-490020.

- Head(TDT),DST
 - Sanction folder (TDT).
 - File copy (e-33376).

(Dr. Akhilesh Mishra) Scientist-E