

### 3.1.2 The institution provides seed money to its teachers for research

Name of the teacher provided with seed money	The amount of seed money (INR )	Year of receiving
<b>CHEMISTRY</b>		
Dr Binod Bihari Panda/Dr Debak	300000	27th september , 2019
<b>CIVIL</b>		
Dr Sujit Kumar Pradhan/Dr Rabi	300000	27th september , 2019
<b>CSE</b>		
Dr Srinivas Sethi/Dr Ashima Rou	300000	27th september , 2019
Dr Sanjay kumar Patra	220000	27th september , 2019
<b>ELECTRICAL</b>		
Dr Rabindra Behera/ Mr Biswaji	300000	27th september , 2019
Dr Umakanta Mahanta/ Dr Bibh	300000	27th september , 2019
Mr Brijesh Kumar// Dr Bibhu Pr	150000	27th september , 2019
<b>ETC</b>		
Dr Ashima Rout /Dr Srinivas Set	300000	27th september , 2019
Dr Debajoty Mishra/Mr Kodand	200000	27th september , 2019
<b>PRODUCTION</b>		
Dr . Bibhuti Bhusan Choudhury	108000	26th september , 2019
Mr Deepak kumar Suna /Mr Hin	240000	27th september , 2019
<b>PHYSICS</b>		
Dr Sunil Kumar Tripathy	300000	27th september , 2019
Dr MD N Khan/Dr A Pattanaik	210000	27th september , 2019
<b>METTALURGY</b>		
Mr. Jogendra Majhi/Mr Jyotiran	300000	27th september , 2019
Mr. Sandeep Kumar Sahoo/Mr J	300000	27th september , 2019
Mrs. Swarnalata Behera	300000	27th september , 2019
<b>MECHANICAL</b>		
Dr. Ravi Narayan Sethi/Dr S K Se	300000	27th september , 2019
Mr. Sudhakar Majhi/Mrs. July R	250000	27th september , 2019
Dr. Babita Singh/Mr Soumya Ra	215000	27th september , 2019
Dr. Anand Gupta	300000	27th september , 2019
Dr. Anshuman Padhi	300000	27th september , 2019
Dr. Dhiren Kumar Behera	300000	27th september , 2019
Mr. Gourab Kumar Ghosh/Mr R	185000	27th september , 2019
<b>CHEMICAL</b>		
Mr. Kasinath Barik	300000	27th september , 2019
Dr. Dipa Das	300000	27th september , 2019
Mr. Rabiranjana Murmu	211000	27th september , 2019
Mr. Harekrushna Sutar	106550	27th september , 2019
Total seed money sanctioned	6895550	



INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG  
Dist: Dhenkanal (ODISHA), PIN-759146

Ref. No. 269

Date: 27-12-19

Office Order

The enclosed list of proposals under seed money grant of TEQIP-III has been approved. All Departments, PIs and Co-PIs of the projects are hereby advised to complete the project in the prescribed time i.e. on or before 30/09/2020.

S. Mahanta  
27/12/2019  
DIRECTOR

Copy to:

- 1) HOD Chemical Engg., Civil Engg., Computer Science E Engg. and Application Electrical Engg., Electronics and Telecommunication Engg., Mechanical Engg Metallurgical Engg., Production Engg., Chemistry, Mathematics, Physics and Humanities.
- 2) Coordinator, Nodal Officers and Departmental Coordinators of TEQIP-III for information and necessary action.

Completed  
for and submitted  
Ms. J. Moha,  
Ms. S. Behera,  
Mr. Shishoo

S. Behera  
28-12-19

S. Moha  
28/12/19

M. S.  
28/12/19

[Signature]  
28/12/19

**Department of Computer Science Engineering & Applications**

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Study of Fractal Behavior and Analysis of data flow in any Network.	Dr. Sanjay Kumar Patra	NA	2,20,000/-	2,20,000/-
			Total	2,20,000/-	2,20,000/-

**Department of Electrical Engineering**

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Implementation and Utilization of Electric Vehicle for Smart Grid and Smart Home	Dr. Rabindra Behera	1. Mr. Biswajit Sahoo 2. Mr. Subrat Kumar Biswal 3. Karri V V Surya Srinivas	3,40,000/-	3,00,000/-
2	Study of fault tolerant drive of five phase induction motor using multi-level inverter	Mr. Umakanta Mahanta	Dr. Bibhu Prasad Panigrahi	3,00,000/-	3,00,000/-
3	Design of Efficient Multilevel Inverter using Selective Harmonic Elimination Technique	Mr. Brijesh Kumar	Dr. Bibhu Prasad Panigrahi	1,50,000/-	1,50,000/-
			Total	5,25,000/-	5,25,000/-

**Department of Electronics & Tele-Communication Engineering**

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Development of Secured Aware Optimal Data Routing using Multi Objective Optimizations in Cognitive Radio Ad Hoc Vehicular Network.	Dr. Ashima Rout	1. Dr. Srinivas Sethi 2. Mr. Ramesh Kumar Sahoo	3,05,000/-	3,00,000/-
2	Routing, code, and spectrum	Dr. Debajyoti	Mr. Kodand	2,00,000/-	2,00,000/-

*R. Behera*  
28.11.19

*Prashant*  
28.11.19

*Prashant*  
28.11.19

2	Pulsed Nd-YAG Laser machining characteristics of carbon fiber-reinforced plastic	Mr. Deepak Suna	Mr. Himansu Sekhar Dash	2,40,000/-	2,40,000/-
			Total	4,60,000/-	4,60,000/-

## Department of Physics

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Optical and Electronic properties of binary and ternary semiconductors	Dr. Sunil Kumar Tripathy	NA	3,00,000/-	3,00,000/-
2	Study of Anisotropic Properties and Scaling Behavior of different high Temperature Superconductors	Dr. Md. N. Khan	Dr. A Pattanaik	2,10,000/-	2,10,000/-
			Total	5,10,000/-	5,10,000/-

## Department of Chemistry

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Design and fabrication of chalcogenide thin films for dye sensitized solar cells	Dr. Binod Bihari Panda	1. Dr. Debakanta Tripathy 2. Dr. Niladri Maity	3,00,000/-	3,00,000/-
			Total	3,00,000/-	3,00,000/-

## ✓ Department of Computer Science Engineering &amp; Applications

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	I_CogMining-An IoT Based Cognitive Mining using Accessing Cognitive Load	Dr. Srinivas Sethi	1. Dr. Ashima Rout 2. Mr. Ramesh Kumar Sahoo	3,25,000/-	3,00,000/-
			Total	3,25,000/-	3,00,000/-

## Department of Electronics &amp; Tele-Communication Engineering

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Department of Mechanical Engineering

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Optimization of Tribological Characteristics of Industrial Engine oil based Nano-lubricants using Taguchi method	Mr. Gaurab Kumar Ghosh	Mr. Ritesh Kumar Patel	1,85,000/-	1,85,000/-
2	Efficient time table scheduling in an Institution	Dr. Dhiren Kumar Behera	NA	3,80,000/-	3,00,000/-
3	Effect of filler materials on the structural behavior of hybrid natural fiber composites	Mr. Ansuman Padhi	NA	3,30,000/-	3,00,000/-
4	Optimization of emission characteristics and performance parameter of a single cylinder for stroke spark ignition engine using blended fuel and changing the exhaust muffler geometry	Mr. Anand Gupta	NA	4,30,000/-	3,00,000/-
5	Investigation on the effect of grapheme nanoparticle based biodiesel blends on the Performance, combustion and emission parameters of compression ignition engine	Mrs. Babita Singh	Mr. Soumya Ranjan Pradhan	2,15,000/-	2,15,000/-
6	Investigation into Mechanical & Tribological Behaviors of Natural Fiber polymer composite Reinforced with Nano fillers	Mr. Sudhakar Majhi	Mrs. July Randhari	2,50,000/-	2,50,000/-
7	Development of Robust Vibration Signal Processing Techniques for Surface Fault Detection of bearing system	Dr. Rabinarayan Sethi	Dr. Sukanta Kumar Senapati	3,00,000/-	3,00,000/-
			Total	20,90,000/-	18,50,000/-
Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
8	Design and development of a Solar based Robotic car	Dr. Bibhuti Bhusan Choudhury	NA	1,08,000/-	1,08,000/-
			Total	1,08,000/-	1,08,000/-



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*S. Mahanta*  
27/12/20  
**DIRECTOR**

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Department of Chemical Engineering

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Fabrication of low cost Starch/Polyvinyl Alcohol/Citric Acid blend films for bio-plastic appliances using Biomass/solid waste	Mr. Kashinath Barik	NA	3,00,000/-	3,00,000/-
2	Preparation and Characterization of biomass derived modified adsorbent for capture of CO <sub>2</sub> in a fluidized bed reactor	Dr. Dipa Das	NA	3,00,000/-	3,00,000/-
3	Experimental studies of the chitosan based Proton Exchange membrane fuel cell at low to medium temperature operation	Mr. Rabiranjana Murmu	NA	2,11,000/-	2,11,000/-
4	Preparation, Characterization and Engineering applications of PP-Graphene-Copper Nano Composite	Mr. Harekrushna Sutar ✓	NA	106550.27/-	1,06,550/-
			Total	917550.27/-	9,17,550/-

Department of Metallurgy and Material Engineering

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Effect of Al <sub>2</sub> O <sub>3</sub> on Microstructure-Properties Correlation of Hypereutectic Al-Si alloy	Mr. Jogendra Majhi	Mr. Jyotiranjana Pany	3,00,000/-	3,00,000/-
2	Enhancement of Properties of hypereutectic Al-Si alloys by in-situ reinforcement	Mr. Sandeep Kumar Sahoo	Mr. Jayanta Kumar Sahoo	3,00,000/-	3,00,000/-
3	Correlation between nanoindentation hardness and mechanical properties of fully pearlitic steel	Mrs. Swarnalata Behera	NA	3,00,000/-	3,00,000/-
			Total	9,00,000/-	9,00,000/-





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Prof. & Head  
Civil Engineering Department  
IGIT, Sarang, Odisha

Department of Civil Engineering

Sl. No.	Project Title	Principal Investigator	Co-Principal Investigator	Proposed Amount (INR)	Approved Amount (INR)
1	Performance evaluation of bituminous mixes using RAP as an alternative material	Mr. Sujit Kumar Pradhan	Dr. Rabindra Kumar Kar	3,00,000/-	3,00,000/-
			Total	3,00,000/-	3,00,000/-



Prof. & Head  
Civil Engineering Department  
JGIT, Bargarh, Odisha

INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG  
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-III)  
RECEIPT AND PAYMENT ACCOUNT  
FOR THE YEAR 2020-21

RECEIPTS				PAYMENTS			
SL NO	PARTICULARS	For the month Amount Rs.	cumulative Amount Rs.	SL NO	PARTICULARS	For the month Amount Rs.	Cumulative Amount Rs
1	Opening Balance a) Cash b) Bank		- -	1	<b>1.1.1-Procurement of Goods</b>		
					1.1.1.1-Procurement of Equipment		18,864,314.00
					1.1.1.2- Learning Resources		
					1.1.1.3- Furniture		778,238.00
					1.1.1.4- Minor civil Works		
				2	<b>1.1.2-Academic Process</b>		
2	Received from  MHRD, GOI.		54,804,862.00		1.1.2.1-Improvement Students Learning		1,471,035.00
					1.1.2.2 Assistantships		123,900.00
					1.1.2.3-Graduates Employablity		1,633,962.00
					1.1.2.4-Faculty/ staff development and motivation		2,950,869.00
					1.1.3.2 -Operation & Maintenance of Equipments		
					<b>1.1.2.5 Reserch &amp; Development</b>		<b>5,508,844.00</b>
3	Loans & Advances settled		2,417,914.00		1.1.2.6- Moocs and Digital Learning		29,000.00
					1.1.2.7-Mentoring & Twinning System		25,000.00
					1.1.2.8-Reforms & Goverance		1,885,314.00
					1.1.2.9 Management Capacity Development		
					1.1.2.11-Industry Institute Interaction		715,659.00
				3	Loans & Advances ( Asset)		
				4	<b>1.1.3. Operating costs</b>		
					1.1.3.1-Consumables		7,353,974.00
					1.1.3.2 Operation & Maintenance of Equipments		2,529,276.00
					1.1.3.3-Office expenses		259,088.00
					1.1.3.4-Meetings		
					1.1.3.5- Hiring of Vehicles		
					1.1.3.6-Travel cost		33,280.00
					1.1.3.7-Salary		379,769.00
					1.1.4.1-Salary (Quality Teachers)		12,681,254.00
					<b>Closing Balance;</b>		
					a) Cash		-
					b) Bank		-
	<b>TOTAL</b>		<b>57,222,776.00</b>		<b>TOTAL</b>		<b>57,222,776.00</b>

For JBMT & ASSOCIATES  
CHARTERED ACCOUNTANTS

(CA. JAYDEEP LENKA, FCA)  
PARTNER

