



**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated by JNTUH,
Accredited by NBA & NAAC with 'A' Grade)



- 3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs) (2) & 3.2.2 Percentage of teachers having research projects during the last five years (2)
3.2.4 Average Percentage of departments having Research projects funded by government and non government agencies during the last five years (3)

Sl.no.	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
1	Dr. D.V. Ravi Shankar	TEQIP-III	Government,JNT UH	Mechanical Engineering	2019	3.00	One Year
2	Dr.A.Suresh Rao	TEQIP-III	Government,JNT UH	CSE	2019	2.60	One Year
3	Dr.B.Sunil Srinivas	TEQIP-III	Government,JNT UH	CSE	2019	2.98	One Year
4	Dr. D.V Ravi Shankar, Dr. B. Rajinikanth, Dr. K. Raju	TKRCET	Non-Government	Mechanical, H&S, EEE	2020	75	Five years
5	Dr. K. Sukanya	TKRCET	Non-Government	ECE	2020	29.47	Three Years
6	Dr. Muruganatham	TKRCET	Non-Government	IT	2020	8	Three Years
7	Dr.Mekala Girish Kumar	SERB	Government,SER B	ECE	2021	13.46	Two Years

Principal

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Medbowli, Meerpet, Hyderabad- 500097



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**3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs) (2) & 3.2.2 Percentage of teachers having research projects during the last five years (2)
3.2.4 Average Percentage of departments having Research projects funded by government and non government agencies during the last five years (3)**

Sl.no.	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
8	Dr. Prem Sudha Rangaswamy	TKRCET	Non-Government	CIVIL	2021	37.62	Three Years
9	Dr. Md Qutubuddin	TKRCET	Non-Government	EEE	2021	15	Three Years
10	Dr. A Suresh Rao, Dr. M. Girish Kumar	TKRCET	Non-Government	CSE, ECE	2021	23.96	Three Years
11	Dr. DV RaviShankar/Dr. A Suresh Rao	MSME	Government,MS ME	Mechanical	2022	12.75	Three Years
12	Dr. G Gopala Krishna	MSME	Government,MS ME	Mechanical	2022	8.00	Three Years


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E Mail: pa2registr@jntuh.ac.in



PROCEEDING OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)
PRESENT Dr. N. YADIAH REGISTRAR

Procs No. JNTUH/TEQIP-III/CRS/2019/MECH/08

Date: 22/07/2019

Subject: Award of the project titled “Development of mobile Air Conditioner with Eco Friendly refrigeration 134a” under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

ORDERS:

The project titled “Development of mobile Air Conditioner with Eco Friendly refrigeration 134a” is awarded with sanctioned amount of Rs.3,00,000/- (Rupees Three Lakhs Only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

1. Principal Investigator : **Dr. Suresh Akella**
Department Name : Mechanical Engineering
Institute Name : Sreyas Institute of Engineering & Technology
2. Co-Principal Investigator-1, : **Dr. A.V.S.S. Kumara Swami Gupta**
Department Name : Mechanical Engineering
Institute Name : JNTUH College of Engineering Hyderabad
3. Co-Principal investigator-2 : **Dr. Ravi Shankar**
Department Name : Mechanical Engineering
Institute Name : TKR College of Engineering & Technology

With the following terms and conditions to the Investigators:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. An Initial grant of Rs.1,00,000/- will be released to the account of the principal of lead institute.
3. In case if both PI and Co-PI-1 are from affiliating institutions, a joint account should be operated by PI, Co-PI-1 and Principal of lead institute.
4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
5. In case, PI or Co-PI leave the institute for any reason or withdraw from the project (proper justification should be communicated to the University), he/she shall be treated as withdrawn from the project.
6. PI's and Co-PI's should fill the Forms A to F and submit to TEQIP-III JNTUH whenever required.
7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
9. The Second Installment of Rs.1,00,000 of Research grant will be released on satisfactory performance in first Progress Evaluation and submission of Form B and Form D duly filled and signed.
10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory



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Kukatpally, Hyderabad – 500 085, Telangana (India)
PRESENT Dr. N. YADAAIAH REGISTRAR

Procs No.JNTUH/TEQIP-III/CRS/2019/CSE/11

Date:22/07/2019

Subject: Award of the project titled “Minimalistic Approach to Predict Cardiovascular Diseases Using Various Risk Factors That Go Undiagnosed Till Advanced Stages.” under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

ORDERS:

The project titled “Minimalistic Approach to Predict Cardiovascular Diseases Using Various Risk Factors That Go Undiagnosed Till Advanced Stages.” is awarded with sanctioned amount of Rs.2,60,000/- (Rupees Two Lakh Sixty Thousand Only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

1. Principal Investigator
Department Name
Institute Name

Dr. A. Suresh Rao
Computer Science and Engineering
TKR College of Engineering & Technology

2. Co-Principal Investigator-1
Department Name
Institute Name

DR. B.Vishnu Vardhan
Computer Science and Engineering
JNTUH College of Engineering Jagityal

With the following terms and conditions to the Investigators:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. An Initial grant of Rs.1,00,000/- will be released to the account of the principal of lead institute.
3. In case if both PI and Co-PI-1 are from affiliating institutions, a joint account should be operated by PI, Co-PI-1 and Principal of lead institute.
4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
5. In case, PI or Co-PI leave the institute for any reason or withdraw from the project (proper justification should be communicated to the University), he/she shall be treated as withdrawn from the project.
6. PI's and Co-PI's should fill the Forms A to F and submit to TEQIP-III JNTUH whenever required.
7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
9. The Second Installment of Rs.1,00,000 of Research grant will be released on satisfactory performance in first Progress Evaluation and submission of Form B and Form D duly filled and signed.
10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory Performance in the next Progress Evaluation.

Principal

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11. The project should results in at least one publication in the relevant Journal national/international (Non Payment Journal).
12. PI's and Co-PI's will be informed if there are any directions from NPIU or changes made by TEQIP-III JNTUH relevant to Collaborative Research Scheme time to time and are to be followed in due course till the completion of TEQIP-III Project
13. All non-consumables procured for the research project will automatically become the property of the lead institution after completion of the project.
14. 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.
15. Any interest incurred should be deposited back to the university JNTUH, TEQIP-III Account.
16. 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).
17. Any discrepancy with Co Investigator and principals while implementing the project to be brought to the notice of University authorities.
18. For any discrepancies and other relevant matters, decision of the University is final.
19. Upon the completion of the Project, PI should submit final report Form E, Final Financial Statement Form F, and utilization certificate Form G along with true copy of audit report of the Project. In case if principal fails to do so, it will be recovered from institute.

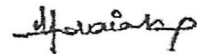
With the following terms conditions to the Principals:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. The grant from TEQIP-III will be transferred to Principals account of lead institution three installments.
3. A separate account for the project may be created.
4. Principal is responsible for transfer of funds to the project account within one week after the release of funds from university. In case if principal fails to do so; it will be recovered from institute.
5. Principals should permit to use existing facilities for project Implementation if requested.
6. In case if both PI and Co-PI-1 are from affiliated institute, a joint account is to be operated by PI, Co -PI-1 and Principal of lead institution
7. In case of collaborative research project carried under twinning, PI and Principal of lead institute will jointly operate the account
8. In case either PI or Co-PI-1 withdraws from the project, Principals of the respective institution shall find the replacement and inform the same to the University for Approval.
9. A declaration form duly signed by Principal (Form H) abiding the rules listed above shall be submitted along with account details within 3 days after receiving the sanction letter for the transfer of research grant.
10. Any discrepancy with PI and Co- PI, while implementing the project, to be communicated with details, to the University.
11. After the completion of every project, Principals of lead institute should ensure that all non consumables procured for projects become the property of institution and to be labeled TEQIP-III/ (Number).
12. Principal of the lead institute should submit the list of all non consumables procured for all Projects at the end of collaborative research scheme through duly filled in Form I.
13. Principals will be informed if any directions from NPIU or changes in guidelines made by TEQIP-III JNTUH relevant to the Collaborative Research Scheme from time to time. Those guidelines should be followed in due course of time, till the completion of TEQIP-III Project
14. For any discrepancies and other relevant matters, decision of the University is final.

Under the circumstances as stated above, the Vice-Chancellor is pleased to accord permission to award the project under Collaborative Research Scheme TEQIP-III, JNTUH.

The expenditure shall be met from TEQIP-III funds.

To
The Concerned Investigators
The Concerned Principals,
Copy to VC/Rector/Registrar.
Copy to Office of the TEQIP-III



REGISTRAR


Principal

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Kukatpally, Hyderabad – 500 085, Telangana (India)
PRESENT Dr. N. YADIAH REGISTRAR

Procs No. JNTUH/TEQIP-III/CRS/2019/CSE/13

Date: 22/07/2019

Subject: Award of the project titled "Automatic Diagnostic Model for Detection of Malaria Parasites from Microscopic Images" under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

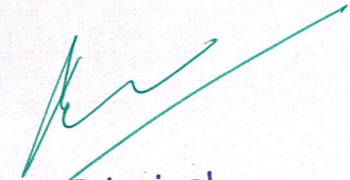
ORDERS:

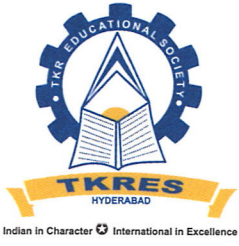
The project titled "Automatic Diagnostic Model for Detection of Malaria Parasites from Microscopic Images." is awarded with sanctioned amount of Rs.2,98,000/- (Rupees Two Lakh Ninty Eight Thousand Only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

- | | |
|--------------------------------|----------------------------------------------------------|
| 1. Principal Investigator | Dr. G. Madhu |
| Department Name | Information Technology |
| Institute Name | VNR Vignana Jyothi Institute of Engineering & Technology |
| 2. Co-Principal Investigator-1 | Dr. A. Govardhan |
| Department Name | Computer Science and Engineering |
| Institute Name | JNTUH College of Engineering Hyderabad |
| 3. Co-Principal Investigator-2 | Dr. B. Sunil Srinivas |
| Department Name | Computer Science and Engineering |
| Institute Name | TKR College of Engineering & Technology |

With the following terms and conditions to the Investigators:

1. The institute where Principal Investigator is working becomes the lead Institute.
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4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
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7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
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10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory Performance in the next Progress Evaluation.


Principal
TKR College of Engineering & Technology
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(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500037



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :

Teegala Krishna Reddy

Secretary :

Teegala Harinath Reddy

Mobile : 98496 83333

Treasurer :

Teegala Amarnath Reddy

Mobile : 94403 36464

TKRES/Research fund/2020/26

Dt. 11-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “An Initiative for Developing and Harnessing Innovations” under the guidance of Dr. D. V. Ravi Shankar, Dr. K. Raju and Dr. B. Rajini Kanth, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

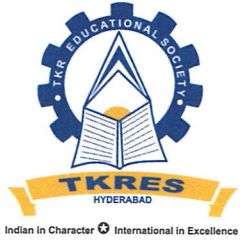
It is here glad to inform you that research project titled “An Initiative for Developing and Harnessing Innovations” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 75,00,000/- (Seventy Five Lakhs) for a duration of five year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Renovation/furnishing of space i- TBI	20,00,000/-
2	Fab Labs	55,50,000/-
Total (Rs.)		75,00,000/-

For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETY™

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President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020

Time: 11:00AM

Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



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AN AUTONOMOUS INSTITUTION

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Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in



College Code: K9

TKRCET/Principal/R&D/2020/156

Dt. 14-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “An Initiative for Developing and Harnessing Innovations” under the guidance of Dr. D. V. Ravi Shankar, Dr. K. Raju and Dr. B. Rajini Kanth, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 11-09-2020 letter no. TKRES/Research fund/2020/26.

It is here glad to inform you that research project titled “An Initiative for Developing and Harnessing Innovations” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 75,00,000/- (Seventy Five Lakhs) for a duration of five year.

The details of the budget sanctioned for each component is given below.

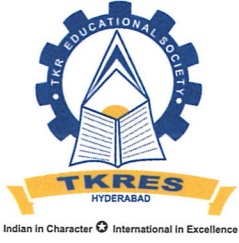
S.No.	Head	Total in (Rs.)
1	Renovation/furnishing of space i-TBI	20,00,000/-
2	Fab Labs	55,50,000/-
Total (Rs.)		75,00,000/-

Indian in Character  International in Excellence


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Principal

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TKR EDUCATIONAL SOCIETYTM

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Mobile : 94403 36464

TKRES/Research fund/2020/28

Dt. 11-09-2020

SANCTION ORDER

Subject: Financial support for research project titled “An adaptive software Defined Network on chip (SD-NOC) for Varying Network Resources in offering Optimal service Quality” under the guidance of Dr. Suaknya, Assoc. professor, ECE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

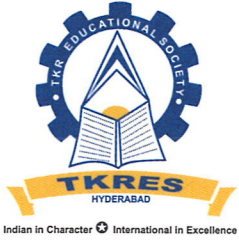
It is here glad to inform you that research project titled “An adaptive software Defined Network on chip (SD-NOC) for Varying Network Resources in offering Optimal service Quality” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 29,47,753 /- (Twenty Nine Lakhs Forty Seven Thousand Seven Fifty Three only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	12,97,753/-
2	Consumables	7,50,000/-
2	Travel	1,50,000/-
3	Contingencies	4,50,000/-
Total (Rs.)		29,47,753/-

For TKR EDUCATIONAL SOCIETY


TREASURER
Treasurer



TKR EDUCATIONAL SOCIETYTM

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Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
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College Code: K9

TKRCET/Principal/R&D/2020/158

Dt. 14-09-2020

SANCTION ORDER

Subject: Financial support for research project titled “An adaptive software Defined Network on chip (SD-NOC) for Varying Network Resources in offering Optimal service Quality” under the guidance of Dr. Suaknya, Assoc. professor, ECE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 11-09-2020 letter no. TKRES/Research fund/2020/28.

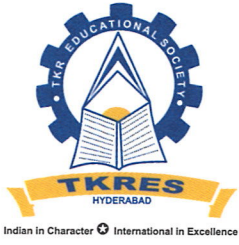
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S.No.	Head	Total in (Rs.)
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2	Travel	1,50,000/-
3	Contingencies	4,50,000/-
Total (Rs.)		29,47,753/-

Principal

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Mobile : 94403 36464

TKRES/Research fund/2020/27

Dt. 11-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “Remote controlled aquaponic system using IoT and AI” under the guidance of Dr.R.Muruganantham, Professor, IT, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

It is here glad to inform you that research project titled “Remote controlled aquaponic system using IoT and AI” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 8,00,000/- (Eight Lakhs only) for a duration of three year.

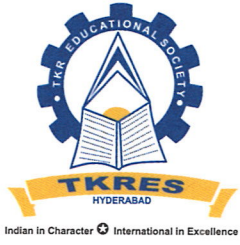
The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	6,00,000/-
2	Consumables	50,000/-
3	Travel	1,00,000/-
4	Contingencies	50,000/-
Total (Rs.)		8,00,000/-

Indian in Character  International in Excellence

For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETY™

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

Accredited by NBA and NAAC with 'A' Grade

Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in



College Code: K9

TKRCET/Principal/R&D/2020/157

Dt. 14-09-2020

SANCTION ORDER

Sub: Financial support for research project titled “Remote controlled aquaponic system using IoT and AI” under the guidance of Dr.R.Muruganatham, Professor, IT, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 11-09-2020 letter no. TKRES/Research fund/2020/27.

It is here glad to inform you that research project titled “Remote controlled aquaponic system using IoT and AI” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 8,00,000/- (Eight Lakhs only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	6,00,000/-
2	Consumables	50,000/-
3	Travel	1,00,000/-
4	Contingencies	50,000/-
Total (Rs.)		8,00,000/-

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Principal

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

FILE NO. SRG/2021/001392
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 29 December, 2021

ORDER


Subject: Financial Sanction of the research project titled **Quality of Signal Improvement in Prominent GNRFT based Ternary Logic System for Futuristic Dielectric Inserted MLGNRs for Integrated Circuit Designs** under the guidance of Dr. MEKALA GIRISH KUMAR, Electronics and Communication Engineering, TKR College of Engineering & Technology, Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 1346400/- (Rs. Thirteen Lakh Forty Six Thousand Four Hundred Only) with break-up of Rs. 255000/- under Capital (Non-recurring) head and Rs.1091400/- under General (Recurring) head for a duration of 24 months. The items of expenditure for which the total allocation of Rs. 1346400/- has been approved are given below:

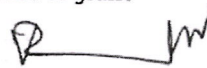
The following budget may be considered for TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> HSPICE	255000
A'	Total (Non-Recurring)	255000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Travel, Contingencies) Recurring - III : Scientific Social Responsibility	744000 200000 25000
2	Recurring - IV : (Overhead Charges)	122400
B'	Total (Recurring)	1091400
C	Total cost of the project (A' + B')	1346400

- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.


Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

8. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.
9. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.
10. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any. beyond the duration of the project
11. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.
12. The project File no. SRG/2021/001392 should be mentioned in all communications arising from the above project. The organization/institute/university should ensure that the technical support/financial assistance provided to them by SERB should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
13. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by SERB.
14. Sanction order for release of funds under a) Non-recurring and b) Recurring will be issued separately depending on the availability of funds. The project become operational from the day the first release of grant received by the implementing Institute.



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in

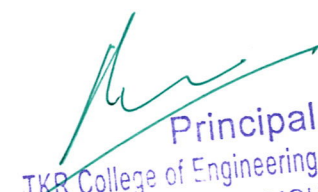
To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	Dr. MEKALA GIRISH KUMAR Electronics and Communication Engineering TKR College of Engineering & Technology , Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 Email: mekalagirishkumar@tkrcet.com Mobile: 916300718482 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	PRINCIPAL, TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad (Receipt of Grant may be intimated by name to the undersigned)



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in


Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

FILE NO. SRG/2021/001392-G ✓
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, Government of India)
Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 29 December, 2021 ✓

ORDER

Subject: Research project entitled **Quality of Signal Improvement in Prominent GNRFET based Ternary Logic System for Futuristic Dielectric Inserted MLGNRs for Integrated Circuit Designs** under the guidance of Dr. MEKALA GIRISH KUMAR, Electronics and Communication Engineering, TKR College of Engineering & Technology , Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097.

1. In continuation of SERB's sanction order No. SRG/2021/001392 dated 29 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of **Rs. 558200/-** under 'Grants-in-aid General' to TKR College Of Engineering & Technology , Survey No -8/a, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad, Hyderabad, Telangana-500097 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 29 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid General' for the project, no previous U/C is required.
4. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER) This release is being made under Start-up Research Grant (General). (EC Engineering Sciences) ✓
5. The Sanction has been issued with the approval of the competent authority on **22 December, 2021** and vide Diary No. **SERB/F/5901/2021-2022** dated **23 December, 2021**. ✓
6. The release amount of **Rs. 558200/-** (Rupees Five Lakh Fifty Eight Thousand Two Hundred only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below: ✓


PFMS Unique Code	TLRA00000856	✓
Account Name	TKR COLLEGE OF ENGINEERING AND TECHNOLOGY A UNIT OF TKR EDUCATIONAL SOCIETY	✓
Account Number	0696053000003739	✓
Bank Name & Branch	THE SOUTH INDIAN BANK LIMITED MEDBOWLI, R.R. DIST, HYDERABAD-500097	✓
IFSC/RTGS Code	SIBL0000696	✓
Email id of A/C Holder	shankardasari@rediffmail.com	✓
Email id of PI	mekalagirishkumar@tkrcet.com	✓

(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

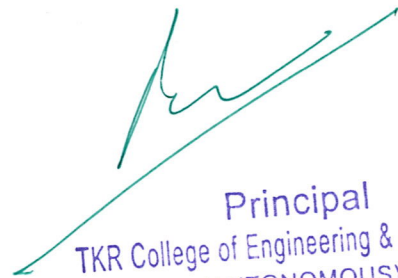
1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy


Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

4.	<p>Dr. MEKALA GIRISH KUMAR Electronics and Communication Engineering TKR College of Engineering & Technology , Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 Email: mekalagirishkumar@tkrcet.com Mobile: 916300718482 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>PRINCIPAL, TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad (Receipt of Grant may be intimated by name to the undersigned)</p>



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in



Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

FILE NO. SRG/2021/001392-C

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 29 December, 2021

ORDER

Subject: Research project entitled **Quality of Signal Improvement in Prominent GNRFT based Ternary Logic System for Futuristic Dielectric Inserted MLGNRs for Integrated Circuit Designs** under the guidance of Dr. MEKALA GIRISH KUMAR, Electronics and Communication Engineering, TKR College of Engineering & Technology, Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097.

1. In continuation of SERB's sanction order No. SRG/2021/001392 dated 29 December, 2021, sanction of the competent authority is hereby accorded to the payment of a sum of Rs. **255000/-** under 'Grants-in-aid Capital' to TKR College Of Engineering & Technology, Survey No -8/a, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad, Hyderabad, Telangana-500097 being the grant for the financial year 2021-2022 for implementation of the above said project.
2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at the website (www.serb.gov.in) and as mentioned in the sanction order of even number dated 29 December, 2021.
3. As this is the first grant being released under 'Grants-in-aid Capital' for the project, no previous U/C is required.
4. The expenditure involved is debit to Fund for Science & Engineering Research (FSER) This release is being made under Start-up Research Grant (Capital). (EC Engineering Sciences)
5. The Sanction has been issued with the approval of the competent authority on **22 December, 2021** and vide Diary No. SERB/F/5900/2021-2022 dated 23 December, 2021.
6. The release amount of Rs. **255000/-** (Rupees Two Lakh Fifty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

PFMS Unique Code	TLRA00000856
Account Name	TKR COLLEGE OF ENGINEERING AND TECHNOLOGY A UNIT OF TKR EDUCATIONAL SOCIETY
Account Number	0696053000003739
Bank Name & Branch	THE SOUTH INDIAN BANK LIMITED MEDBOWLI, R.R. DIST., HYDERABAD-500097
IFSC/RTGS Code	SIBL0000696
Email id of A/C Holder	shankardasari@rediffmail.com
Email id of PI	mekalagirishkumar@tkrcet.com

(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -


1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
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Principal
TKR College of Engineering & Technology
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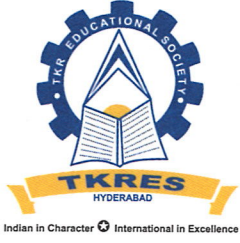
4.	<p>Dr. MEKALA GIRISH KUMAR Electronics and Communication Engineering TKR College of Engineering & Technology , Survey no -8/a, raghava nagar colony, medbowli, meerpet, hyderabad, Hyderabad, Telangana-500097 Email: mekalagirishkumar@tkrcet.com Mobile: 916300718482 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>PRINCIPAL, TKR College Of Engineering & Technology, Survey No -8/A, Raghava Nagar Colony, Medbowli, Meerpet, Hyderabad (Receipt of Grant may be intimated by name to the undersigned)</p>



(Dr. Ramesh Vijayan)
Scientist - D
drvramesh@serb.gov.in



Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



TKR EDUCATIONAL SOCIETY™

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16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2021/34

Dt. 08-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment” under the guidance of Dr. Prem Sudha Rangaswamy, Associate Professor, Civil, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

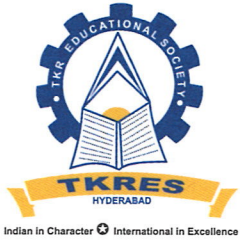
It is here glad to inform you that research project titled “Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 37,62,000/- (Thirty Seven Lakhs Sixty Two Thousand only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	18,12,000/-
2	Consumables	9,00,000/-
2	Travel	1,50,000/-
3	Contingencies	9,00,000/-
Total (Rs.)		37,62,000/-

For TKR EDUCATIONAL SOCIETY

T. Amanna
TREASURER
Treasurer



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

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Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

Accredited by NBA and NAAC with 'A' Grade



Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in

College Code: K9

TKRCET/Principal/R&D/2021/140

Dt. 10-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “**Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment**” under the guidance of Dr. Prem Sudha Rangaswamy, Associate Professor, Civil, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 08-09-2021 letter no. TKRES/Research fund/2021/34.

It is here glad to inform you that research project titled “Development of Decentralized Artificial Wetland System for Domestic Wastewater Treatment” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 37,62,000/- (Thirty Seven Lakhs Sixty Two Thousand only) for a duration of three year.

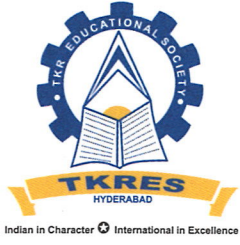
The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	18,12,000/-
2	Consumables	9,00,000/-
2	Travel	1,50,000/-
3	Contingencies	9,00,000/-
Total (Rs.)		37,62,000/-

Indian in Character International in Excellence

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



TKR EDUCATIONAL SOCIETY™

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

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President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2021/33

Dt. 08-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “**Design of Synchronous reluctance motor**” under the guidance of Dr. Md Qutubuddin, Associate Professor, EEE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

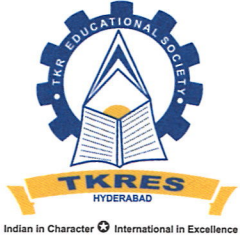
It is here glad to inform you that research project titled “Design of Synchronous reluctance motor” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 15,00,000/- (Fifteen Lakhs only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	10,50,000/-
2	Consumables	1,50,000/-
2	Travel	1,00,000/-
3	Contingencies	1,00,000/-
Total (Rs.)		15,00,000/-

For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
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Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

Mrs. T. Arundathi
Vice President

Dr. T. Harinath Reddy
Secretary

Mrs. T. Tulasi Reddy
Joint Secretary

Mr. T. Amarnath Reddy
Treasurer



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

Accredited by NBA and NAAC with 'A' Grade



Medbowli, Meerpet (V), Balapur (M) Ranga Reddy (D), Hyderabad, Telangana - 500097

Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in

College Code: K9

TKRCET/Principal/R&D/2021/139

Dt. 10-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Design of Synchronous reluctance motor” under the guidance of Dr. Md Qutubuddin, Associate Professor, EEE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 08-09-2021 letter no. TKRES/Research fund/2021/33.

It is here glad to inform you that research project titled “Design of Synchronous reluctance motor” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 15,00,000/- (Fifteen Lakhs only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

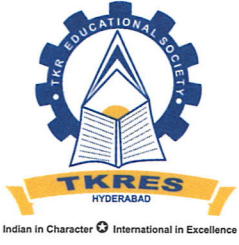
S.No.	Head	Total in (Rs.)
1	Equipment	10,50,000/-
2	Consumables	1,50,000/-
2	Travel	1,00,000/-
3	Contingencies	1,00,000/-
Total (Rs.)		15,00,000/-

Indian in Character  International in Excellence


Principal

Principal

TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

16-2-751/A/31/C, Tirumala Hills, Asman Gadh, Malakpet,
Hyderabad - 500 036. A.P.

Phone : 040 - 65587536, 65347536, Fax : +91-040-24094567

President :
Teegala Krishna Reddy

Secretary :
Teegala Harinath Reddy
Mobile : 98496 83333

Treasurer :
Teegala Amarnath Reddy
Mobile : 94403 36464

TKRES/Research fund/2021/32

Dt. 08-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” under the guidance of Dr. A Suresh Rao, Professor, CSE, and Dr. M. Girish Kumar, Assoc. Professor, ECE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020, TKRES/Research fund/2020/09.

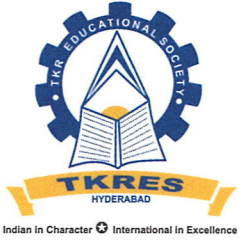
It is here glad to inform you that research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 23,96,000/- (Twenty Three Lakhs Ninty Six thousand only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	16,16,000/-
2	Consumables	3,30,000/-
2	Travel	1,50,000/-
3	Contingencies	3,00,000/-
Total (Rs.)		23,96,000/-

For TKR EDUCATIONAL SOCIETY


Treasurer **TREASURER**



TKR EDUCATIONAL SOCIETYTM

(Regd. No. 6490/2001)

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TKRES/Research fund/2020/09

Governing Body Resolution of the Society

Date: 03-02-2020
Time: 11:00AM
Venue: Chairman Chamber, TKRES

The following resolution was passed at the Board meeting held on 03-02-2020 of TKR Educational Society, held at its registered office at # 16-12-751/A/31/C. Tirumala Hills, Asamgadh, Malkapet, Hyderabad-5000036. Telangana and have been recorded as per agenda.

Honorable Secretary Dr. Harinath Reddy, proposed to sanction an amount of RS. 2.2crores to be spent in the upcoming 5 academic years. i.e. from AY 2019-20 to 2023-24 towards developing R & D infrastructure to establish research echo system at TKR College of Engineering and Technology (K9). After thorough discussion the management governing body unanimously agreed upon to sanction the budget from the **TKR EDUCATIONAL SOCIETY**. The society governing body authorized to sanction the money as and when required to proceed with spending the money for the Research and Development at **TKR College of Engineering and Technology (K9)**. The sanction orders will be issued for approved proposed research projects by the treasurer Shri. T. Amarnath Reddy.

///Certified True Copy///

For T.K.R. Educational Society.

Mr. T. Krishna Reddy
President

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Vice President

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Mobile: 9100377790, E-mail: info@tkrcet.ac.in, Website: www.tkrct.ac.in



College Code: K9

TKRCET/Principal/R&D/2021/138

Dt. 10-09-2021

SANCTION ORDER

Sub: Financial support for research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” under the guidance of Dr. A Suresh Rao, Professor, CSE, and Dr. M. Girish Kumar, Assoc. Professor, ECE, Meerpet, TKRCET, Hyderabad.

Ref. With reference to the TKR Education Society Governing Body resolution dated 03-02-2020 letter no. TKRES/Research fund/2020/09 and sanction order dated 08-09-2021 letter no. TKRES/Research fund/2021/32.

It is here glad to inform you that research project titled “Development of Prediction model for heart attacks using diabetic retinopathy and Cortisol levels” is hereby accorded to the above-mentioned research support project at a total cost of Rs. 23,96,000/- (Twenty Three Lakhs Ninty Six thousand only) for a duration of three year.

The details of the budget sanctioned for each component is given below.

S.No.	Head	Total in (Rs.)
1	Equipment	16,16,000/-
2	Consumables	3,30,000/-
2	Travel	1,50,000/-
3	Contingencies	3,00,000/-
Total (Rs.)		23,96,000/-

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Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

F.No. 6(19)/Sanction to CNA/Incubation /2022-23

Dated : 17/08/2022

To,

The Accounts Officer,
Pay & Accounts Office,
Micro, Small & Medium Enterprises,
New Delhi.

SANCTION ORDER

Subject: Sanction of payment of Rs. 20,57,00,000/- to CENTRAL TOOL ROOM AND TRAINING CENTRE (CTTC), Bhubaneswar, ODISHA towards implementation of Incubation Component of MSME Innovative Scheme for FY 2022-23:reg.

Sanction of the President of India is hereby conveyed to release of payment of Rs. 20,57,00,000/- (Rupees Twenty Crore Fifty Seven Lakh Only) under Grant-in-aid General for implementation of Incubation Component of MSME Innovative Scheme, a component of MSME Champions Scheme under Technology Upgradation and Quality Certification (CLCS-TUS), to Central Tool Room And Training Centre (CTTC), Bhubaneswar, Odisha as Central Nodal Agency (CNA) w.r.t. approval in 2nd PMAC held on dt. 22.06.2022 for the FY 2022-23. The details are as under:

(Rs. in lakh)

S. No.	BE of MSME Champions Scheme 2022-23	Amount approved in 2 nd PMAC	Amount Concluded by IFW	1 st release as per Scheme Guidelines 70% of amount approved and available funds under Grant-in-aid General	Balance Fund will be released in due course of time	Balance to be released after utilization of 60% amount of 1 st release as per scheme guidelines
1	5072.00	2963.676	2074.573	2057.0000	17.573	889.103

2. The details of ideas and the respective amount approved in 2nd PMAC and 70% of the amount as 1st installment as per scheme guidelines are as per **Annexure-A**

3. Roles and Responsibilities of CNA:

Central Tool Room And Training Centre (CTTC), Bhubaneswar, Odisha shall release the amount to the respective Host Institutes (HIs) as per the **Annexure-A** after submission/upload all requisite documents on MIS portal by the HIs concerned as per the scheme guidelines. The Grant-in-Aid will be regulated in accordance with the OM of Dept. of Expenditure, Ministry of Finance vide No. 1(18)/PFMS/FCD/2021 dated 9th March, 2022 (copy attached) regarding revised procedure for flow of funds under Central Sector Schemes and provisions contained in the Incubation Component of MSME Innovative Scheme. CTTC, Bhubaneswar, Odisha has been nominated as CNA vide letter No. 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Incubation Component of MSME Innovative Scheme of MSME Champions Scheme (copy of the order enclosed for reference). CTTC, Bhubaneswar shall strictly follow the roles and responsibility as mentioned in the aforesaid O.M. The

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Medbowli, Meerpet, Hyderabad- 500097

संयुक्त निदेशक, विकास आयुक्त
भारत सरकार, Govt of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises
निर्माण भवन (7th फ्लोर, आजाद रोड) नई दिल्ली
Office of the Development Commissioner (MSME)
निर्माण भवन, सातवीं मंजिल, मौलाना आजाद रोड, नई दिल्ली-110 108

funds released are also subject to the provisions contained in Chapter 9 of the General Financial Rules, 2005, as amended from time to time, read with the Government of India's decisions incorporated there-under and any other guidelines which may be issued in this regard and in particular to the following conditions:

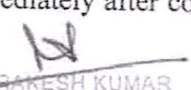
- i) CTTC, Bhubaneswar shall maintain CNA account of Grant-in-Aid received from the Government and utilized. In addition, a separate Bank account shall be maintained for the Government Grants under this Scheme. (The bank account should be same which was authorized for operation at the time of registration under the central plan Scheme monitoring system (CPSMS) of the Ministry of Finance).
- ii) The grant shall be utilized for the purpose of development of idea under Incubation Component of MSME Innovative Scheme as provisioned in the Scheme guideline. Further, while incurring the expenditure, austerity measures should be taken into account as issued from time to time by competent authority.
- iii) Innovative.msme.gov.in portal shall be used for uploading all relevant information by the HIs as and when required by this office under Incubation Component of MSME Innovative Scheme.
- iv) CTTC, Bhubaneswar shall maintain a register of permanent and semi-permanent assets acquired if any, wholly or mainly out of the above grant in the prescribed format and copy thereof should be furnished to this Ministry.
- v) If any capital assets created in the CTTC, Bhubaneswar, DC (MSME) will be the sole proprietor of the same. Assets acquired wholly or substantially out of Government Grant shall not be disposed of without obtaining the prior approval of the sanctioning authority of Grant-in-aid.
- vi) The accounts of CTTC, Bhubaneswar shall be open for inspection by the sanctioning authority and audit, both by the Controller & Auditor General of India under the provision of C&AG (DPC) Act, 1971 in accordance with the provisions laid down in Section 14 of the C&AG (DPC 1971) as amended from time to time and Internal Audit party of the Principal Accounts Office of the Ministry of Micro, Small & Medium Enterprises (MSME), whenever it is called upon to do so.
- vii) The grantee shall submit the Utilization Certificate in the prescribed form GFR-12 duly signed by the Head of the Institution/ Grantee latest by 31.03.2023. The utilization certificate in respect of grants should also disclose whether the specified, quantified and qualitative targets that should have been reached against the amount utilized were in fact reached, and if not, the reasons therefor furnished by concerned HI.
- viii) CTTC, Bhubaneswar shall furnish an Audited Statement of Accounts of the financial year before 30.04.2023 also indicating separately Activity-wise and Head-wise expenditure.
- ix) Grant-in-Aid shall be utilized subject to the Economy and other Instructions issued from time to time by the M/o Finance or by the Competent Authority.
- x) CTTC, Bhubaneswar shall certify that the utilization certificates due for submission for the Grants-in-aid sanctioned in the previous year's containing all the relevant details under GFR 212(1) have been submitted to the satisfaction of the Ministry of MSME.
- xi) CTTC, Bhubaneswar shall adhere to all the relevant provisions of GFR and any other instructions/ guidelines issued by the Government from time to time, while making procurement/ purchases of goods and services including compliance to GFR provisions in case of out-sourcing of services and engagement of consultants.
- xii) CTTC, Bhubaneswar has been exempted from execution of the bond. CTTC, Bhubaneswar shall, however, furnish an undertaking that it will comply with all the terms and conditions stipulated in the sanction order.
- xiii) CTTC, Bhubaneswar should send pre-receipted bill and undertaking to agree to the terms & condition of this sanction (in triplicate) to this Ministry for payment of the amount drawn against this sanction.



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- xiv) In no case the grant released under this sanction will be utilized for any purpose other than those indicated in the sanction. The grantee shall not divert the grants and entrust execution of the Scheme or work concerned to another Institution or Organization and shall abide by the terms & conditions of the grant and follow/ adhere to all the relevant provisions of GFR regarding Grants in aid. If the grantee fails to utilize the grant for the purpose for which the same has been sanctioned or does not adhere to the terms & condition of Grant and GFR provisions, the grantee/Institution shall be required to refund the grant with interest @10% per annum, if any.
- xv) CTTC, Bhubaneswar will send the detailed progress report of for fund utilized by HI
- xvi) CTTC, Bhubaneswar may use the fund as prescribed in the Scheme guidelines of Incubation component of MSME Innovative Scheme relating to development of ideas. The expenditure under the sanction is maximum, saving if any, will be surrendered to the Govt. of India.
- xvii) The grantee institution shall not utilize the interest earned if any on the recurring/non-recurring grants-in-aid released to the institution for any purpose. The interest earned shall be indicated in UC which can be either adjusted in next release or to be refunded to Go I after grants-in-aid sanctioned is utilized.

4. Roles and Responsibilities of Host Institutes:

- i) The expenditure shall be incurred towards Technology related Expenditure towards machine usage charges, Electricity charges, Procurement of raw material, testing/Calibration charges, other charges essential for development of idea, charges for mentor/handholding supporting team Travelling Expenses or any other item not covered as above may be allowed as per need for development of the idea. The main activities includes nurturing of innovative business ideas (new/indigenous technology, processes, products, procedures, etc.), with the expected outcome of it being commercialized into an enterprise.
- ii) The terms and conditions governing the grant will be as per undertaking executed to Government by the HIs on MIS portal. The amount released as 1st installment will be utilized in a manner that Proof of Concept (POC) of project/idea is made . The Host Institution shall maintain separate accounts of the funds received and expenditure incurred on various activities. Further, the HI would submit Annual Accounts, Audited expenditure Statement and Utilization Certificate to the Government. In case of mis-utilisation or diversion of grant sanctioned under the scheme, the HI shall be liable to refund to the President of India the whole or a part amount of the grant with interest @ of 10 % per annum thereon. Further, The Host Institution shall not utilize the interest earned on the recurring / non recurring grants -in-aid released to the institution for any purpose. The interest earned shall be indicated in UC which can be either adjusted in next release or to be refunded to GOI after grants -in-aid sanctioned is utilized.
- iii) The time limit for Completion of ideas through Host institute is preferably one year until and unless some valid justification is given for extension of the time limit The Executive Head shall submit Quarterly Progress Report of the Business Incubator to this office. The consolidated report on the final outcome of such incubation along with the report of mentor/guide about the quality of the work done, its cost effectiveness, tangible gains (quantitative) likely to be achieved, etc., is also to be submitted immediately after completion of the work.


राकेश कुमार / RAKESH KUMAR
संयुक्त निदेशक / Joint Director
मॉडल संरचना / Govt. of India
वृहत्, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises
निकाश आयोग (सू. म. एवं म. उद्यम) का कार्यालय
Office of the Dev. Officer (MSME)
निर्देशक, सू. म. एवं म. उद्यम, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000


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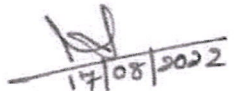
- iv) Host Institutes may use the fund as prescribed in the Scheme guidelines of Incubation component of MSME Innovative Scheme relating to development of ideas. The expenditure under the sanction is maximum, saving if any, will be surrendered to the Govt. of India.
 - v) In addition to the above, the HI will have to abide by the terms & condition as given in the detailed guidelines of the scheme. Also, the office of DC (MSME) may lay down any other condition to be followed by HI as and when required.
 - vi) The expenditure incurred by the institutions shall be open to inspection by the sanctioning authority/ CAG/Chief Controller of Account (CCA), Ministry of Micro, Small & Medium Enterprises.
 - vii) The HIs shall certify that it has not obtained or applied for grants for the same purpose or activities from any other Ministry or Department of Government of India or the State Government.
5. Noted at Serial No. 03 in the Register of Grants.
 6. Sh. P.V Suresh Babu, DDO of the office of DC (MSME) will act as Drawing and Disbursing Officer for this sanction.
 7. The progress of the scheme would be monitored by the PMAC, O/o DC (MSME).
 8. The expenditure involved is debit to the Budget Allocation under Demand No. 68 Ministry of Micro, Small & Medium Enterprises (MSME) under Technology Up gradation and Quality Certification (MSME Champions Scheme) for FY 2022-23. Details are as under:

(i)	Major Head	2851.00.102.95	Village & Small Industries
(ii)	Object Head	95.04.31	GIA-G
(iii)	BE MSME CLCS-TUS Champions Scheme)	34.39 Cr.	-
(iv)	Present sanction/release	20.57 Cr.	-

9. The CNA bank details of the Central Tool Room & Training Centre, Bhubaneswar for making payment are as below :


Name of the CNA	Name of Bank where A/c of Org. Held	Address/Code of Bank Branch	Saving Bank A/c No. of CNA	MICR Code and IFSC Code
Central Tool Room & Training Centre	State Bank of India	Infocity Branch, Bhubaneswar	41141047045	MICR-751002030 IIFC NO. - SBIN0010133

10. There is no pending UC with CTTC, Bhubaneswar under "MSME Innovative Scheme
11. This issues with the approval of Integrated Finance Wing vide their Dy. No. 64/2022-23/IFW-II dated 16.08.2022.


17/08/2022
(Rakesh Kumar)
Joint Director

Encl: As above.

Copy To,


Principal
TKR College of Engineering & Technology
(AUTONOMOUS)
Medbowli, Meerpet, Hyderabad- 500097

राकेश कुमार / RAKESH KUMAR
संयुक्त निदेशक / Joint Director
संयुक्त सरकार / Govt. of India
सू.नि. लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises
निदेशक आवास (सू. स. एवं म. उद्यम) का कार्यालय
Office of the Dev. Commr. (MSME)
विभाग कार्यालय, ई-110101/निदेशक आवास, नया दिल्ली-110101

170	Guru Gobind Singh College of Pharmacy	Haryana	Ashwani Kumar	Start Up /Employed/Others	Laboratory condensor waste water recycling unit - recycling of the water and avoid unnecessary water wastage	7.000	5.950	1.050	4.165
171	Association of Lady Entrepreneurs Of India	Telangana	NamrataDhananjay Deo	Start Up /Employed/Others	KAWAK - The Biodegradable Packaging-developed a biodegradable, organic and sustainable solution from agricultural waste that can replace Styrofoam in various applications	20.000	11.050	8.950	7.735
172	TKR College of Engineering and Technology	Telangana	Perike Enosh	Start Up /Employed/Others	Unmanned surface vehicle for defense and civilian application - to built a vessel which will not come to the shore again which only transmit required by surveillance	20.000	12.750	7.250	8.925
173	Haldia Institute of Technology	West bengal	Radharani Das	Start Up /Employed/Others	Production of SiO2 Nano Powder from Rice Husk (Crop Residue) for its Industrial Uses Waste to Wealth	15.000	12.750	2.250	8.925
174	Marathwada Accelerator for Growth and Incubation Council	Maharashtra	Dixit Mihir Pareshkumar	Entrepreneurs/MSME	Infrared Pyrolysis Process-converts any type of solid waste directly to non toxic air.	19.970	8.500	11.470	5.950

Shankar

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