

Research Projects sanctioned from various Agencies

S.No	Date	Dept	Agency	Scheme	Topic	Project Coordinators	Approval File No.	Fund (in Lakhs)	Status
1	2022-23	CSE	DST	Young Scientists and Technologists	A web based OCR service for handwritten Telugu and Tamil scripts	Dr. RN Ashlin Deepa	SP/YO/2021/2096 Dtd:17. 02 .2023	23.98861	Ongoing
2	2022-23	ECE	MSME	Innovative Champion	Smart Wheel chair with Robotic ARM	Sakhinetti Mounika	17(2)/ MSME Innovative/PMAC/2021-22 Dtd. 23.07.2022	11.985	Ongoing
3	2022-23	CSE	MSME	Innovative Champion	AI based Action and Gesture Recognition Framework for Children Diagnosed with Cerebral Palsy	Dr.G.Ramesh	17(2)/ MSME Innovative/PMAC/2021-22 Dtd. 23.07.2023	12.75	Ongoing
4	2022-23	EEE	MSME	Innovative Champion	Capacitor Clamped Boost Inverter for on-grid Solar PV Applications	Dr.Dogga Raveendhra	17(2)/ MSME Innovative/PMAC/2021-22 Dtd. 23.07.2024	12.75	Ongoing
5	2022-23	EEE	MSME	Innovative Champion	Design and Development of Smart and Sustainable Onboard charger for Electric Vehicle	Ch.Subba Lakshmi	17(2)/ MSME Innovative/PMAC/2021-22 Dtd. 23.07.2025	12.75	Ongoing
6	2022-23	EEE	MSME	Innovative Champion	Consumer Appliance - A smart automatic breakfast (idli) maker	Tata Jogi Venkata Viswanath	17(2)/ MSME Innovative/PMAC/2021-22 Dtd. 23.07.2026	12.75	Ongoing
7	2022-23	EEE	MSME	Innovative Champion	Design of Smart Inter Operable Charging System for Electric Vehicles	Phaneendra Babu	17(2)/ MSME Innovative/PMAC/2021-22 Dtd. 23.07.2027	11.9	Ongoing
8	2021-22	EEE	DST	DDP	Design of low cost and high efficient testing circuit for power semiconductor device characterization	Dr. Raveendhra	DST/T DT I DDP -39 t2021 Dtd. 11.02.2022	47.663	Ongoing
9	2021-22	ME	DRDO	ARMREB	Investigation on Dynamic Deformation Behavior of Tungsten Heavy Alloys (WHAs) for Defence Applications	Dr.S.K Singh	ARM(RD-17)/2035/1008/D Dtd. 18.08.2021	40.74	Ongoing
10	2020-21	ME	DST	CRG	Enhancement of Mechanical Properties and Forming Behaviour of AZ31 Alloy using Shear Deformation Techniques for Automotive and Aerospace Applications	Dr.S.K Singh	CRG/2020/001450 Dtd. 17.12.2020	28	Ongoing

191.288



GOVERNMENT OF INDIA
Ministry of Science & Technology
Department of Science & Technology
SP/YO/2021/2096 (G)
(SEED)

Technology Bhawan, New Delhi

Dated: 17/02/2023

Sanction Order

Subject: Financial assistance for the project entitled "A Web-based OCR Service for Handwritten Telugu and Tamil Scripts" submitted by Dr. Ashlin Deepa R N, GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY, HYDERABAD, RANGA REDDY, TELANGANA, 500090 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. 23,98,861/- (Rupees Twenty Three Lakh Ninty Eight Thousand Eight Hundred Sixty One only) for a duration of 3 Years . The detailed breakup of the grant for General as well as Capital Components are given below:-

General Component : ₹ 21,01,224/-

Capital Component : ₹ 2,97,637/-

Items	Budget Summary (in Rs.)			
	Year-1	Year-2	Year-3	Total
1- Non-Recurring				
Workstation- . - 1	228920	0	0	228920
Scanner- . - 1	34220	0	0	34220
Mobile phones . - 3	34497	0	0	34497
Subtotal (Capital)	297637	0	0	297637
2- Recurring				
Project Staff	438960	438960	495600	1373520
Junior Research Fellow (JRF)-1	438960	438960	495600	1373520
Consumables	50000	50000	50000	150000
Contingency	50000	50000	50000	150000
Travel	50000	50000	50000	150000
Overhead	70940	51116	55648	177704
Field Testing/Demo/training- Demo/Training Programme	0	50000	50000	100000
Subtotal (General)	659900	690076	751248	2101224
Total Project Cost (Cap.+ Gen.)	957537	690076	751248	2398861

2. The sanction of the President is also accorded to the release of Rs. 6,59,900/- (Rupees Six Lakh Fifty Nine Thousand Nine Hundred only) to the



Ramesh <ramesh680@gmail.com>

Fwd: Fw: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for Gol assistance-reg.

Dr. G. Ramesh <ramesh680@gmail.com>
Draft

Tue, Feb 28, 2023 at 7:58 PM

From: MSME Innovative Scheme <helpline-msme@gov.in>

Sent: 23 July 2022 19:37

To: Praveen Jugge <principal@griet.ac.in>

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for Gol assistance-reg.

विकास आयुक्त का कार्यालय
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सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
(भारत सरकार)

निर्माण भवन, सातवीं मंजिल, मौलाना आज़ाद रोड,
नई दिल्ली-110 108



OFFICE OF THE DEVELOPMENT COMMISSIONER
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

Nirman Bhawan, 7th Floor, Maulana Azad Road,
New Delhi-110 108

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

File No. : 17(2)/ MSME Innovative/PMAC/2021-22

Date : 23-07-2022

To,

Gokaraju Rangaraju Institute of Engineering and Technology

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for Gol assistance-reg..

Sir,

I am directed to inform you that the idea(s) / proposals received from your Institute under the above scheme were considered by the PMAC meeting held on 22/06/2022. The committee has approved this idea(s). The details of approved idea / proposal are as under.

Sl. No.	Name of Incubatee and proposed idea of innovation	Project cost	Amount Sanctioned as (Rs. In lakhs)	GOI Share	Incubatee Share (Rs. In lakhs)
1	Sakhinetti Mounika , Smart Wheel chair with Robotic ARM	14.100	11.985		2.115

Further, in order to release Gol grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/2022 dated 9.03.2022 carefully and nomination of CTC Bhubaneswar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details [Click here](#))

1. CTTC Bhubaneswar has opened Saving A/c in SBI for release of fund to HIs as CNA Account. The contact officer of CTTC, Bhubaneswar is Shri Skrout, 9437965670, skrout@cttc.gov.in
2. All HIs have to inform CTTC, Bhubaneswar about the name of SBI Branch and code, where the Sub Agency (SA) account of HI is to be opened.
3. CTTC, Bhubaneswar will integrate it with CNA account through SBI Banks help
4. HI will open new Zero Balance Current A/c in SBI in the branch shared with CTTC, Bhubaneswar and link with the CNA account.
5. HI shall share the mandate form with CTTC, Bhubaneswar and O/o DC (MSME) through email- schand@dcmsme.gov.in with a copy to ramakrishnan.v@gov.in

Yours faithfully,
(V. Ramakrishnan)
Dy. Director

This is an automated message, Do not reply.



Ramesh <ramesh680@gmail.com>

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Dr. G. Ramesh <ramesh680@gmail.com>
Draft

Tue, Feb 28, 2023 at 8:08 PM

From: MSME Innovative Scheme <helpline-msme@gov.in>

Sent: 23 July 2022 19:49

To: Praveen Jugge <principal@griet.ac.in>

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for Gol assistance-reg.

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1	G Ramesh , AI based Action and Gesture Recognition Framework for Children Diagnosed with Cerebral Palsy	15.000	12.750	2.250	

Further, in order to release Gol grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/2022 dated 9.03.2022 carefully and nomination of CTTC Bhubaneswar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details [Click here](#))

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Yours faithfully,
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Dr. G. Ramesh <ramesh680@gmail.com>
Draft

Tue, Feb 28, 2023 at 7:47 PM

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(सूक्ष्म, लघु एवं मध्यम उद्यम)
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
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निर्माण भवन, सातवीं मंजिल, मौलाना आज़ाद रोड,
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OFFICE OF THE DEVELOPMENT COMMISSIONER
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Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

File No. : 17(2)/ MSME Innovative/PMAC/2021-22

Date : 23-07-2022

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Sl. No.	Name of Incubatee and proposed idea of innovation	Project cost	Amount Sanctioned as Share (Rs. In lakhs)	GOI Incubatee Share (Rs. In lakhs)
1	Dogga Raveendhra , Capacitor Clamped Boost Inverter for on-grid Solar PV Applications	15.000	12.750	2.250

Further, in order to release GoI grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/2022 dated 9.03.2022 carefully and nomination of CTTC Bhubaneswar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details [Click here](#))

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Dy. Director

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Ramesh <ramesh680@gmail.com>

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Dr. G. Ramesh <ramesh680@gmail.com>
Draft

Tue, Feb 28, 2023 at 7:56 PM

From: MSME Innovative Scheme <helpline-msme@gov.in>

Sent: 23 July 2022 22:00

To: Praveen Jugge <principal@griet.ac.in>

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg.

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नई दिल्ली-110 108



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New Delhi-110 108

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

File No. : 17(2)/ MSME Innovative/PMAC/2021-22

Date : 23-07-2022

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1	CH subba lakshmi , Design and Development of Smart and Sustainable Onboard charger for Electric Vehicle	18.000	12.750	5.250

Further, in order to release GoI grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/2022 dated 9.03.2022 carefully and nomination of CTTC Bhubaneswar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details [Click here](#))

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Yours faithfully,
(V. Ramakrishnan)
Dy. Director

This is an automated message, Do not reply.

--
Dr.D.Indira
Dean,EDC
GRIET
Ph.no:9966016412
indiradendukuri@gmail.com



Ramesh <ramesh680@gmail.com>

Fwd: Fw: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for Gol assistance-reg.

Dr. G. Ramesh <ramesh680@gmail.com>
Draft

Tue, Feb 28, 2023 at 7:51 PM

From: MSME Innovative Scheme <helpline-msme@gov.in>

Sent: 23 July 2022 22:01

To: Praveen Jugge <principal@griet.ac.in>

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for Gol assistance-reg.

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निर्माण भवन, सातवीं मंजिल, मौलाना आज़ाद रोड,
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1	TATA JOGI VENKATA VISWANATH , Consumer Appliance - A smart automatic breakfast (idli) maker	15.000	12.750	2.250

Further, in order to release Gol grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/2022 dated 9.03.2022 carefully and nomination of CTC Bhuvaneshwar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details [Click here](#))

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Dy. Director

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Ph.no:9966016412
indiradendukuri@gmail.com



Ramesh <ramesh680@gmail.com>

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Dr. G. Ramesh <ramesh680@gmail.com>
Draft

Tue, Feb 28, 2023 at 8:00 PM

From: MSME Innovative Scheme <helpline-msme@gov.in>

Sent: 23 July 2022 22:10

To: Praveen Jugge <principal@griet.ac.in>

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme(Incubation, Design & IPR) of MSME Champion Scheme for Gol assistance-reg.

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1	PHANEENDRA BABU BOBBA , Design of Smart Inter Operable Charging System for Electric Vehicles	36.500	11.900	24.600

Further, in order to release Gol grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/2022 dated 9.03.2022 carefully and nomination of CTC Bhubaneswar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details [Click here](#))

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Yours faithfully,
(V. Ramakrishnan)
Dy. Director

This is an automated message, Do not reply.



Dr. Akhilesh Mishra
Scientist-E
Technology Development & Transfer
Phone : (011) 26590254 (Direct)
E-mail: akhilesh.mishra@nic.in

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
विज्ञान और प्रौद्योगिकी विभाग
टेक्नोलॉजी भवन, नया महरौली मार्ग
नई दिल्ली-110 016

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD
NEW DELHI-110 016

दूरभाष / Tel. : 26962819, 26567373,
26562134, 26562122 (EPBAX)
फैक्स / Fax : 26569908, 26515637,
26863847, 26862418
वेबसाइट / website : www.dst.gov.in

No. DST/TDT/DDP-39/2021

11-02-2022

Subject: Financial support for the project titled "Design of low cost and highly efficient testing circuit for power semiconductor device characterization".

Dear Dr. Raveendhra,

I am pleased to inform you that Department of Science & Technology under DDP programme has sanctioned the above mentioned project at **Rs.47,66,300/- (Rupees Forty-Seven Lakh Sixty-Six Thousand and Three Hundred Only)**. A copy of sanction (for recurring and non-recurring) has already been sent vide mail. As per DST guidelines, the date of start of the project is the date of receipt of the fund through RTGS transfer to the Host Institution. Please intimate the date of start of the project to DST immediately.

Under the manpower head, 2-JRF has been sanctioned in this project. Kindly recruit the manpower as per DST norms (OM No. SR/S9/Z-08/2018 dated 30.01.2019 and SR/S9/Z-05/2019 dated 10.07.2020).

Foreign travel is not permitted out of the grant sanctioned under "Travel Head" of the project. For any consumable item costing more than Rs. 20,000/- a copy of the purchase order may kindly be furnished to the undersigned. Diversion of funds from one head to another head is normally not allowed. The diversion of funds from recurring head i.e. Manpower, contingencies, consumables, travel etc. is also not allowed. However, any re-allocation of grants under different heads requires prior approval of this Department. The Statement of Expenditure and Financial year wise Utilization Certificate may be submitted to DST at the end of every financial year. The interest amount earned out of project grant at the end of each financial year should be deposited back to Consolidated India Fund (CIF) through online mode at www.bharatkosh.gov.in. You are also requested to submit UC in Public Financial Management System (PFMS) and submit the progress report to DST.

You may be called for a mid-term review during the execution of the project. You have to submit a Project Completion Report (PCR) along with the final audited UC and SE to the DST.

We wish you a grand success during the implementation of the above project.

With regards,

Yours sincerely,

(Akhilesh Mishra)

Encl: As above

Dr. Dogga Raveendhra,
Associate Professor,
Electrical and Electronics Engineering,
Gokaraju Rangaraju Institute of Engineering and Technology,
Hyderabad, Ranga Reddy-500090,
Hyderabad, Telangana.

You can also follow us on

@IndiaDST or www.facebook.com/IndiaDST
 @IndiaDST or www.twitter.com/IndiaDST

Tele : 23007803
Fax : 23007853
Email : ardb@hqr.drdo.in

ARDB/01/2031954/M/I
Government of India
Ministry of Defence
DRDO Headquarters
Aeronautics R&D Board
DRDO Bhawan, New Delhi-11011

19th Jun 2020

To,

1. Principal
Gokaraju Rangaraju Institute of Engg. and Tech
Hyderabad – 500 090

2. Deputy Registrar
BITS, Pilani
Hyderabad – 500078

**SANCTION OF PROJECT UNDER GRANTS-IN-AID SCHEME OF
AERONAUTICS R&D BOARD**

Under the powers vested in the Aeronautics R&D Board vide Govt. of India, Ministry of Defence letter No. Aero/4806/5/69/105/S/D(R&D) dated 12th Feb 1971, and in exercise of power delegated vide DRDO/DFMM/PL/83226/M/01/1976/D(R&D) dated 18 Dec 2019, I am directed to convey the sanction of the Board for the following project :-

Title of the Project : **Theoretical and simulation based approaches to determine the forming limit diagrams of Ti-6Al-4V at elevated temperatures**
Project No : 1954
Name of the 1st PI : Prof Swadesh Kumar Singh, GRIET, Hyderabad
Name of the 2nd PI : Dr. K. Suresh, BITS Pilani Hyderabad
Domain Scientist : Dr. Amit Bhattacharjee, Sc G, DMRL, Hyderabad
User/ Relevant Lab : DMRL, Hyderabad

2. Cost: The total fund for the project is **Rs 26.506 lakhs**. The break-up of the project cost is given as under:-

Budget for GRIET, Hyderabad:

S.no	HEAD	I year (in lakhs)	II year (in lakhs)	III year) (in lakhs)
1.	Salary	----	----	----
2.	Equipments (Annx A)	1.690	----	----
3.	Consumable	0.500	0.500	0.000
4.	Contingency	0.400	0.400	0.400
5.	Travel	0.400	0.400	0.500
6.	Procured services	3.500	1.310	----
7.	Overheads	0.649	0.261	0.090
	Sub Total	7.139	2.871	0.990
	Total	11.000		

Grand Total = Rs 11.000 lakhs (Rupees Eleven Lakhs only)

Budget for BITS, Pilani :

S.no	HEAD	I year (in lakhs)	II year (in lakhs)	III year) (in lakhs)
1.	Salary (JRF) @ Rs 31,000 per month for Two years & Rs 35,000 per month for third years.	3.720	3.720	4.200
2.	Equipments (Annx A)	2.500	----	----
3.	Consumable	----	----	----
4.	Contingency	----	----	----
5.	Travel	----	----	----
6.	Overheads	0.622	0.372	0.372
	Sub Total	6.842	4.092	4.572
	Total	15.506		

Total Grant for BITS, Pilani: Rs 15.506 lakhs (Rupees Fifteen Lakhs Fifty Thousand Six Hundred only)

Project Budget Grand Total: Rs 11.00 lakhs + Rs 15.506 lakhs = Rs 26.506 lakhs (Rupees Twenty Six Lakhs Fifty thousand Six hundred only)

3. **PDC** : Three years (3 years)
4. **The Deliverables of the project are as under:-**

To be accomplished at GRIET, Hyderabad:

- a) **Characterization of material for its material properties like YS, UTS, % elongation, strength Coefficient, work hardening exponent and sensitivity index at various temperatures. (GRIET is having BISS servo electric system to carry out these tests)**

To be accomplished at BITS, Pilani:

- a) **Development of theoretical FLDs using M-K Model with different constitutive models and yield models. (BITS having required software modeling)**
- b) **Finite element modeling of incremental forming process. (BITS is having ABAQUS software to do that.)**

5. **Procedure for Release of funds** : The grantee institute will prepare Contingent bill duly completed, signed on revenue stamp with official seal by the competent financial authority of the institute and certificate from the Institute that no UCs are pending from the PI/ Institute and the same will be forwarded to 'The Secretary, Aeronautics R&D Board, 4th Floor DRDO Bhawan, Rajaji Marg, New Delhi-110011' within 30 days for counter signature and submission to PCDA(R&D), West Block V, RK Puram, New Delhi-110066 for release of installment. The following documents may be submitted to comply the requirement of G.F.R 2017 and release of first installment:-

- a) **ECS mandate form duly filled and countersigned by Dean/Registrar of the Institute.**
- b) **Contingent bill duly signed by PI and countersigned by Dean/Registrar.**

- c) **Certificate from the Grantee institution that grants has not been obtained or applied for the same purpose/ task to be carried out under the MOC with AR&DB or activity from any other Ministry/Department of Government of India or State Government.**
6. **Commencement date of the Project**:-The date of receipt of the grant would be reckoned as the commencement date of the project which has to be intimated to this Sectt. as well as the PCDA (R&D), West Block V, RK Puram, New Delhi-110066 without any ambiguity.
7. **Accounting and Audit of Grant**:-
- (i) Audited Statement of accounts and Utilisation certificate duly certified by the executive financial authority of the Institution and countersigned by competent audit authority is to be submitted alongwith the Annual Technical Report by the end of each financial year.
- (ii) Grantee Institute to open a saving bank account and refund the accrued interest. In case of common account held by Institute the Institute can reflect the interest accrued separately and refund the accrued interest to AR&DB every end of the financial year through Demand Draft/MRO in favour of PCDA (R&D) New Delhi drawn at New Delhi. Unspent balance on completion of the project should be sent to the undersigned by the grantee institution through a Demand Draft/MRO in favour of PCDA (R&D) drawn at New Delhi, for doing the needful.
8. a. **Special Equipment**:-
- (i) Under the special equipment head, procurement of laptop is not permitted and subsequently any request for regularization of the same would not be considered by AR&DB.
- (ii) The equipment purchased from the project fund would be taken on the ledger charge of the institution and details of the same may kindly be submitted to this office alongwith Equipment Retention Form duly certified by the auditors of the institution that necessary check has been applied and the inventory acquired under the project has been found in order.
- (iii) On completion of the project the grantee institute would forward the consolidated list of equipment and may also forward a formal request for retention of equipment and an undertaking by the institute for another project/in house R&D.
- b. The grantee institute shall incorporate necessary clause to provide reservation for SC & ST or OBC in post and services for appointing project staff under grants-in-aid scheme. Details of project staff employed is to furnished soon upon appointment and also, if any changes happen thereon.
- c. **Details of project staff employed is to furnished as per annexure – II (attached) soon upon appointment and also, if any changes happen thereon.**
9. **Policy on Ownership of Intellectual Properties**:-
- a) All foreground information and foreground intellectual property created during the performance of the Project, whether or not legally protected, shall be owned jointly by DRDO and Grantee Institution. DRDO and Grantee Institution shall be deemed to have a royalty-free license to use such joint information and foreground intellectual property for their own R&D purposes.
- b) Grantee Institution shall not publish any research paper covering foreground information generated during the performance of the Project before seeking written consent from DRDO to ensure that no proprietary information is released and no legal rights covering foreground information are jeopardized. Normally, such decision for publication shall be provided by DRDO within 30 days of receipt of such request from Grantee Institution.
- c) Grantee Institute shall promptly report to DRDO about any Intellectual Property generated during the performance of the Project. DRDO and Grantee Institution shall confer and consult each other regarding preparation, filing, prosecution, maintenance of Intellectual Property Rights applications including patent applications covering foreground information, generated during the performance of the project. DRDO shall be responsible for filing, prosecution, grant and maintenance of such Intellectual Property Applications including patent application and Grantee Institute shall render all possible help to DRDO regarding the same. DRDO shall also bear all expenses related to filing,



panel members in the team. Annual progress will be reviewed by the Board.

(b) On completion of the project, a meeting will be arranged by the Panel Coordinator for presentation by PI in consultation with respective panel members, Scientists of the user lab and Secretary AR&DB for final review of the project and application/dissemination of the project outcome.

13. **Closure Report:-** Closure Report containing hard and soft copies of the technical report, data and know how alongwith the information required in the enclosed format will be obtained by the Panel Coordinator from the PI within 60 days after completion of the project PDC to verify the report contents along with Statement of Expenditure, Statement of Accounts & Utilisation Certificate as per Annexure III of Grant-in-Aids rules duly audited from the Competent Audit Authority of Institution/organization signed in ink in duplicate.

14. The PCDA (R&D), DRDO HQ Cell, West Block V, RK Puram, New Delhi-110066 will make disbursement of money year wise as sanctioned in para 2 above on submission of contingent bill by the Institute. The expenditure will be debited to Major Head 2080- Defence Services, R & D, Minor Head 004-Research/Research & Development and Code Head 852/02 (AR&DB Grant-in-aid) of Defence Services Estimates.

15. **Audit:** The accounts of grantee institute or organization shall be open to inspection by the sanctioning authority and audit, both by the controller & Auditor General of India under provision of CAG (DPC) act 1971 and internal audit by the principal Accounts Office of the Ministry or Department, whenever the institution or Organization is called upon to do so.

16. It is requested that the documents given above at para 5 may be submitted to this office at the earliest for further necessary action.

17. The PI will submit an undertaking that the faculty will given two weeks lecture at DIAT Pune/ ITM Mussorie depending upon the expertise, on completion of the project.

18. This is issued with the concurrence of the IFA(R&D), New Delhi vide their U.O. No IFA/R&D/0031/ARDB/2020/Vo-II/0139 dated 12 Jun 2020.

19. Sanction Code is DGTM/ARDB/GIA/20-21/0026 dated 18/06/2020.

Encl : As above

(Dr. Maitreyee Nanda)
Secy, AR&DB

Copy to :-

1. Principal CDA(R&D), West Block V, RK Puram, New Delhi – 110 066
2. IFA (R&D), DRDO Bhawan, New Delhi
3. Dy. Director of Audit, Defence Services, Southern Command, Pune
4. Principal Director of Audit, Air Force & Navy, 'M' Block, N. Delhi-110 001
5. Prof Amol A Gokhale (Convenor TC), Dept of Mechanical Engineering, Indian Institute of Technology, Bombay, Powai, Mumbai-400076, Fax : 022-225726875
6. Prof. Swadesh Kumar Singh (PI), Deptt. Of Mech Engg, GRIET Hyderabad – 500090
7. Dr. Kurra Suresh(PI), Asstt. professor, BITS Pilani, Hyderabad – 500078
8. Dr DK Das (Co-ord M&M Panel), Sc 'G' , DMRL, Kanchanbagh, Hyderabad - 500058
9. Dr. Amit Bhattacharjee, Sc G, DMRL, Hyderabad – 500058
10. Director, DMRL, Hyderabad – 500058

FILE NO. CRG/2020/001450
SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 29-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**Enhancement of Mechanical Properties and Forming Behavior of AZ31 Alloy using Shear Deformation Techniques for Automotive & Aerospace Applications**" under the guidance of Dr. Swadesh Kumar Singh, Mechanical Engineering, Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally, Hyderabad, Telangana-500090 and by Dr. Nitin Ramesh Rao Kotkunde, Assistant Professor, Mechanical Engineering Department, Birla Institute Of Technology & Science Pilani, Hyderabad Campus - 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. 2666400/-** (Rs. Rupees Twenty Six Lakh Sixty Six Thousand Four Hundred only **Only**) with break-up of **Rs. 650000/- under Capital (Non-recurring)** head and **Rs. 2016400/- under General (Recurring)** head for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 2666400/-** has been approved are given below:

The following budget may be considered for **Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally**

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Heat treatment furnace -> Pure shear and pre-twinning setup	650000
A'	Total (Non-Recurring)	650000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	0 550000 60000
2	Recurring - IV : (Overhead Charges)	126000
B'	Total (Recurring)	736000
C	Total cost of the project (A' + B')	1386000

The following budget may be considered for **Birla Institute Of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal**

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment	0
A'	Total (Non-Recurring)	0
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : Recurring - III : Scientific Social Responsibility	1164000 0 0
2	Recurring - IV : (Overhead Charges)	116400
B'	Total (Recurring)	1280400
C	Total cost of the project (A' + B')	1280400

2. Sanction of the **SERB** is also accorded to the payment of
- and **Rs. 350000/-** (Rupees Three Lakh Fifty Thousand only) under 'Grants-in-aid General' to **Principal, Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally**
 - and **Rs. 500000/-** (Rupees Five Lakh only) under 'Grants-in-aid General' to **Director BITS Pilani Hyderabad Campus, Birla Institute Of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal**


29.12.2020

being the first installment of the grant for the year 2020-2021 for implementation of the said research project.

3. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

4. 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.

5. While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

6. 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.


7. The institute will furnish to the SERB, New Delhi, 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.

8. 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

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 sanctioned equipments and consumables would be produced as per GFR 2005 and its disposal would be done with prior approval of SERB.


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.


(Dr. Pankaj Kumar Rawat)
Scientist D
ms_mmm@serbonline.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.	<p>Dr. Swadesh Kumar Singh Mechanical Engineering Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally, Hyderabad, Telangana-500090 Email: swadeshsingh@griet.ac.in Mobile: 919618037605</p> <p>Dr. Nitin Ramesh Rao Kotkunde Mechanical Engineering Department Birla Institute Of Technology & Science Pilani, Hyderabad Campus (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, Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally Director BITS Pilani Hyderabad Campus, Birla Institute Of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Pankaj Kumar Rawat)
Scientist D
ms_mmm@serbonline.in

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

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

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 29-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**Enhancement of Mechanical Properties and Forming Behavior of AZ31 Alloy using Shear Deformation Techniques for Automotive & Aerospace Applications**" under the guidance of Dr. Nitin Ramesh Rao Kotkunde, Mechanical Engineering Department, Birla Institute of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal and by Dr. Nitin Ramesh Rao Kotkunde, Assistant Professor, Mechanical Engineering Department, Birla Institute Of Technology & Science Pilani, Hyderabad Campus - 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. 1280400/- (Rs. Twelve Lakh Eighty Thousand Four Hundred Only) with break-up of Rs. 0/- under Capital (Non-recurring) head and Rs. 1280400/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 1280400/- has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment	0
A'	Total (Non-Recurring)	0
B	Recurring Items	
1	Recurring - I : (Manpower)	1164000
	Recurring - II :	0
	Recurring - III : Scientific Social Responsibility	0
2	Recurring - IV : (Overhead Charges)	116400
B'	Total (Recurring)	1280400
C	Total cost of the project (A' + B')	1280400

2. Sanction of the SERB is also accorded to the payment of Rs. 500000/- (Rupees Five Lakh only) under 'Grants-in-aid General' to Director BITS Pilani Hyderabad Campus, Birla Institute Of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal being the first installment of the grant for the year 2020-2021 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER)
This release is being made under Core Research Grant. (PAC Materials, Mining and Minerals Engineering)

4. The Sanction has been issued to Birla Institute Of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal with the approval of the competent authority under delegated powers on 28 December, 2020 and vide Diary No. SERB/F/6538/2020-2021 dated 28 December, 2020

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. 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.

7. 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.

8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. 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.

10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

11. The release amount of Rs. 500000/- (Rupees Five Lakh 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:

Account Name	Birla Institute of Technology and Science
Account Number	111701001949
Bank Name & Branch	ICICI Bank ICICI Bank Ltd, Plot no 3 & 4 KR Arcade, Golnaka, Alwal, Secunderabad, Telangana-500010
IFSC/RTGS Code	ICIC0001117
Email id of A/C Holder	accounts@hyderabad.bits-pilani.ac.in
Email id of PI	swadeshsingh@griet.ac.in

12. 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.

13. 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.

14. The project File no. CRG/2020/001450 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.


15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.


19. 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 the Science & Engineering Research Board.


(Dr. Pankaj Kumar Rawat)
Scientist D
ms_mmm@serbonline.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.	<p>Dr. Nitin Rameshrao Kotkunde Mechanical Engineering Department Birla Institute of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal Email: nitinkotkunde@gmail.com Mobile: 919010451444</p> <p>Dr. Nitin Rameshrao Kotkunde Mechanical Engineering Department Birla Institute Of Technology & Science Pilani, Hyderabad Campus (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>Director BITS Pilani Hyderabad Campus, Birla Institute Of Technology & Science Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet Mandal</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Pankaj Kumar Rawat)
Scientist D
ms_mmm@serbonline.in

FILE NO. CRG/2020/001450 -II
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
 (A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor
 Vasant Square Mall
 Plot No. A, Community Centre
 Sector-B, Pocket-5, Vasant Kunj
 New Delhi-110070

Dated: 29-Dec-2020

ORDER

Subject: Financial Sanction of the research project titled "**Enhancement of Mechanical Properties and Forming Behavior of AZ31 Alloy using Shear Deformation Techniques for Automotive & Aerospace Applications**" under the guidance of Dr. Swadesh Kumar Singh, Mechanical Engineering, Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally, Hyderabad, Telangana-500090 and by Dr. Nitin Ramesh Rao Kotkunde, Assistant Professor, Mechanical Engineering Department, Birla Institute Of Technology & Science Pilani, Hyderabad Campus - 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. 1386000/- (Rs. Thirteen Lakh Eighty Six Thousand Only)** with break-up of **Rs. 650000/- under Capital (Non-recurring) head** and **Rs. 736000/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 1386000/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Heat treatment furnace -> Pure shear and pre-twinning setup	650000
A'	Total (Non-Recurring)	650000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	0 550000 60000
2	Recurring - IV : (Overhead Charges)	126000
B'	Total (Recurring)	736000
C	Total cost of the project (A' + B')	1386000

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 350000/- (Rupees Three Lakh Fifty Thousand only)** under 'Grants-in-aid General' to **Principal, Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally** being the first installment of the grant for the year 2020-2021 for implementation of the said research project.

3. The expenditure involved is debitable to **Fund for Science & Engineering Research (FSER)**
This release is being made under Core Research Grant. (PAC Materials, Mining and Minerals Engineering)

4. The Sanction has been issued to Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally, Kukatpally with the approval of the competent authority under delegated powers on **28 December, 2020** and vide Diary No. **SERB/F/6538/2020-2021** dated **28 December, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. 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.

7. 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.

8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. 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.

10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

11. The release amount of **Rs. 350000/- (Rupees Three Lakh Fifty 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:

[Signature]
 29/12/2020

PFMS Unique Code	GRIET
Account Name	PRINCIPAL GRIET GRANTS
Account Number	18822041001025
Bank Name & Branch	PUNJAB NATIONAL BANK Bachupally, GRIET Campus
IFSC/RTGS Code	PUNB0188210
Email id of A/C Holder	principal@griet.ac.in
Email id of PI	swadeshsingh@griet.ac.in

12. 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.

13. 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.

14. The project File no. CRG/2020/001450 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.


15. 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

16. As this is the first grant being released for the project, no previous U/C is required.

17. 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.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.


19. 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 the Science & Engineering Research Board.


(Dr. Pankaj Kumar Rawat)
Scientist D
ms_mmm@serbonline.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.	<p>Dr. Swadesh Kumar Singh Mechanical Engineering Gokaraju Rangaraju Institute Of Engineering And Technology , Bachupally,Kukatpally, Hyderabad, Telangana-500090 Email: swadeshsingh@griet.ac.in Mobile: 919618037605</p> <p>Dr. Nitin Rameshrao Kotkunde Mechanical Engineering Department Birla Institute Of Technology & Science Pilani, Hyderabad Campus (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, Gokaraju Rangaraju Institute Of Engineering And Technology, Bachupally,Kukatpally</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Pankaj Kumar Rawat)
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