

All India Council for Technical Education

(A Statutory body under Ministry of Education, Govt. of India)

Nelson Mandela Marg, VasantKunj, New Delhi-110070 Website: www.aicte-india.org



MODROB ASPIRATIONAL - Sanction Letter

F.No.9-87/IDC/MOD- ASP/Policy-1/2021-22

Date: 04.03.2022

To

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

Sub: Release of a sum of **Rs.1358800/- (Rupees Thirteen lakh Fifty Eight Thousand Eight Hundred Only)** being the 1st installment **Grant-in-Aid** under the scheme (**MODROB- ASP**) for the year **2021-2022** payable during the current financial year **2021-2022**- reg.

Sir/ Madam,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of **Rs.1698500/- (Rupees Sixteen lakh Ninety Eight Thousand Five Hundred Only)** as sanctioned Grant-in-Aid under the **Modernization and Removal of Obsolescence Aspirational (MODROB- ASP)** scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar, ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S COLLEGE OF ENGINEERING, PUNE-1, KENNEDY ROAD, NEAR RTO, PUNE-411001., Maharashtra		
2.	Title of Project:	Modernisation of Tribology Laboratory for Performance Evaluation of Nano/Bio Lubricants		
3.	Name of Coordinator:	BHANUDAS BACHCHHAV		
4.	Duration of the project:	2 years		
5.	Total Project Cost:	Rs.1718500/-		
6.	Contribution from AICTE, Industry & Institute:	AICTE	Industry	Institute
		Rs.1698500/-	Rs.0/-	Rs.20000/-
7.	Total Sanctioned Grant-in-aid from AICTE:	Non-Recurring(85%):	Recurring (15%):	TOTAL
		Rs.1443725/-	Rs.254775/-	Rs.1698500/-
8.	Amount to be released during the year 2021-22:	Non-Recurring(85%):	Recurring (15%):	TOTAL
		Rs.1154980/-	Rs.203820/-	Rs.1358800/-
9.	Sanctioned grant-in-aid is debatable to:	Major Head 601.18(a) Gen. (Plan Head)		

The contributions from industry and institute (as mentioned in the row 6 of Table above) must reflect in the Receipt & Expenditure Statement in respect of this project, failing which AICTE may not consider proposals under the Scheme in future.

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/ Principal/ Registrar of the Institute through RTGS/ PFMS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as

F. No. 9-87/IDC/MOD-ASP/Policy-1/2021-22



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already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds

- a. The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute Pan No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	Ifsc Code
AAATA1675P	BANK OF BARODA	Bank of Baraod, Shivajinagar, Pune	Shivaji Nagar, Pune - 411005	AISSMSS College of Engineering Project A/C	Saving Account	04510100017246	BARB0SHIP00

In case of any omission the same should be reported to AICTE immediately.

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the scheme.
- c. 80% grant of the sanctioned amount is being released to institution as first installment followed by 20% as reimbursement after Utilization Certificate (UC) and other requisite documents as specified in terms & conditions of MODROB scheme.

II. Maintenance of accounts

- a. The institute shall strictly follow the provisions laid down in the scheme document and this sanction letter. All correspondences related to the project must contain this number along with year of sanction of the project; failing which correspondence will not be entertained.
- b. Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant from AICTE.
- c. The University/ College/ Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure (list enclosed).
- d. The Council or its nominee shall have the right to check/ verify the account to satisfy that the fund has been utilized for the purpose for it was sanctioned.
- e. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/ Director/ Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the sanction letter will not be allowed to be adjusted in the grant and if the Institution/ University does not take the project work within one month of the receipt of the grant, the approval shall ipso fact lapse.
- f. After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.

III. Refund of grant by way of a demand draft in favour of Member Secretary, AICTE, New Delhi

- a. If the college/ institute does not have the Letter of Approval (LOA) or Extension of Approval issued by AICTE for the academic year 2021-22, the fund released should be immediately refunded to AICTE with interest accrued thereon.
- b. If project is not started within six months of the issuance of this Sanction Letter, the released amount, along with interest accrued thereon, has to be necessarily returned to AICTE.
- c. It may be ensured that the project is completed within the stipulated time. If the project is not completed in

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time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.

- d. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

IV. Submission of documents by college/institution after completion of Project/Subsequent years.

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the project: -

- a. Feedback form in the prescribed proforma.
- b. The **Annual Progress Report (APR)** in the prescribed format along with the original Statement of actual Expenditure in the prescribed proforma duly signed by the Head of the institution and shall be submitted to AICTE not later than one month after completion.
- c. The **Utilization Certificate (UC)** supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.
- d. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed by a Chartered Accountant (with membership no., full address & stamp). Photocopies of formats are enclosed.
- e. **Program Evaluation Committee (PEC)** is required to be constituted at Institutional level. The constitution of the PEC shall be as under:
 - (i) Principal/Director/Registrar of the Institution(Chairperson)
 - (ii) Two HODs and one subject expert(Members).
 - (iii) Coordinator of the project (Secretary),

The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.

- f. Project completion report project indicating the activities undertaking, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
- g. Attested photocopies of supporting vouchers/bills of expenditure incurred for the completion of Project.
- h. Photographs of equipment/ items purchased.
- i. The balance amount of the grant will be reimbursed to the university/institution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.

V. General instructions

- a. The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its released.
- b. Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.
- c. The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid

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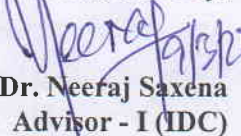
and a register of assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.

- d. The College/ Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/ Department, which has been modernized using the grant. All the equipment procured through the project should be superscribed with AICTE project file number.
- e. The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the AICTE and should at any time the institution cease to function, such assets shall revert to the AICTE.
- f. When the institute ceases to function, it shall take action with respect to equipment/ items procured through AICTE grants as follows:
 - i. It shall be ensured that the project has been completed and all mandatory documents have been submitted for utilization of grant and file has been closed under which the equipment has been procured.
 - ii. The equipment/ items in unserviceable condition are to be disposed off by the institute as per the Government of India rules and the sale proceeds if any, should be sent by Demand Draft in favor of Member Secretary, AICTE, New Delhi.
 - iii. The equipment/ items in working/ serviceable condition shall be transferred in preferential order to:
 - Institute under the same society/ trust/ management.
 - Nearby AICTE approved Government (Degree/ Diploma) institute/ College.
 - iv. The transportation charges for shifting of equipment/ items be borne by borrowing institute.
 - v. AICTE shall be intimated regarding handover/ takeover of the equipment/ items.
- g. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (@<https://doe.gov.in/order-circular/general-financial-rules2017>) should be followed during utilization of grant.
- h. The department/ institute is expected to utilize these equipment/ items alongwith others in offering student internship also by registering on the AICTE Internship Portal (@<https://internship.aicte-india.org>). The internships can be offered to students of other institutions also.
- i. As mentioned in the scheme document, the institute must register in I-STEM (Indian Science, Technology & Engineering Facilities Map) (@<https://www.istem.gov.in>).

List of Equipment/ Items approved:

List of Equipment/ Items
KRL shear stability attachment
Automated loading arrangement LUB/0002/OP/1004
Digital image Acquisition System
Four Ball Tester Base LUB/0002/BA/0001 TR 30 L

Yours sincerely,



Dr. Neeraj Saxena
Advisor - I (IDC)

Copy forwarded for information and necessary action to:

1. **Name and Address of the Coordinator,**
BHANUDAS BACHCHHAV
ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S COLLEGE OF ENGINEERING, PUNE-1,
KENNEDY ROAD, NEAR RTO, PUNE-411001.
2. **The Registrar/ Director/ Principal,**
DATTATRAYA BORMANE
ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S COLLEGE OF ENGINEERING, PUNE-1,
KENNEDY ROAD, NEAR RTO, PUNE-411001.
3. **Guard File**

F. No. 9-87/IDC/MOD-ASP/Policy-1/2021-22




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AISSMS

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra,
Affiliated to Savitribai Phule Pune University and recognized under 2(f) and 12 (B) by UGC
(Id.No.PU/PN/Engg./093 (1992), AISHE Code No. C-41227

Accredited by NAAC with A+ Grade



SHRI MALOJIRAJE CHHATRAPATI
Honorary Secretary

Dr. D. S. BORMANE
Principal

Ref.: AISSMSCOE/PO/1266 /22-23/ Mechanical

Date : 16 / 10 / 2022

PURCHASE ORDER

To,
DUCOM Instruments Pvt.Ltd.
477/A, 4th Phase Peenya Industrial Area,
Bangalore - 560 058.

Sub. : Supply of Equipment.

Sir,
Please supply the following material to the Principal, All India Shri Shivaji Memorial Society's,
College of Engineering, Pune – 411001 as per rate, terms and conditions stated below.

Sl. No.	Items with specification	Qty.	Rate (Rs.)	Amount (Rs.)
1	Four-Ball Tester (TR - 30 Series) as per : (ASTM D2783, ASTM D2596, ASTM D2266, ASTM D4172, ASTM D5183) -1 Standard four ball tester (TR30 Series) – Floor Standing Unit, -1 Set of weights, -1 Ball pot, -3 Ball chucks (Collet), -1 Software CD, -1 Operating Manual, -1 Torque wrench, -1 Standard Tool kit, 1 Suitable PC	1 Nos	950000.00	950000.00
2	Digital Image Acquisition System : Image capture software, 1 IMAQ System Hardware - , 1 Software CD, 1 Set connecting cables- , 1 Operating manual	1 Nos	275000.00	275000.00
3	Automated loading arrangement : Upto 10000N Load	1 Nos	275000.00	275000.00
4	KRL Shear stability attachment : KRL Shear stability test head integrated temperature sensor over temperature protection and safety trip-2 test bearings – Software upgrade external temperature control system	1 Nos	350000.00	350000.00
5	ASTM standard test balls : AISI52100E material	1000 Nos	85.00	85000.00
Sub Total Rs. :				1935000.00
Special Discount Rs :				155339.00
Sub Total Rs :				1779661.00
GST @ 18%				320339.00
Total Rs. :				2100000.00

(Rs. Twenty one lakh only)

Terms and conditions :

- A) Taxes : As calculated above.
B) Payment : 50% with PO and balance 50% before dispatch.



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KENNEDY ROAD, PUNE-411 001

1, Kennedy Road, Near R.T.O., Pune 411 001, Maharashtra, India



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COLLEGE OF ENGINEERING



Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra,
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SHRI MALOJIRAJE CHHATRAPATI

Honorary Secretary

Dr. D. S. BORMANE

Principal

- C) **PAN/GST** : At the time of submission of the bills of Item / Material / Services etc Vender/ Agency should be submitted PAN registration copy of the firm as well as GST registration copy of the firm alongwith the bill, also Vender / Agency has to mention concern firm's PAN registration and GST registration details printed on the bill alongwith All India Shri Shivaji Memorial Society's PAN registration & GST registration details. Vender /Agency should submit copy of 2A of GST returns alongwith the bill, where firm has deposited the amount of GST to the Government in the name of All India Shri Shivaji Memorial Society.
- D) **PAN/GST** : Vender/ Agency kindly note that if fulfillment of clause 'C ' not done as per rules, then in that case vender/ agency is not liable for the payment. After the fulfillment of clause 'C ' the payment will be released.
- E) **Transportation** : Free delivery at College premises
- F) **Delivery period** : Within 8-10 weeks from the date of receipt of Purchase order.
- G) **Installation** : Free of cost.
- H) **Other** : The Society reserves the right to cancel the Purchase Order, without giving any reason / notice & in the case of the delivery period or other terms and conditions given above are not fulfilled.
- D) **Warranty** : One year as per manufacturer's warranty.
- J) **IMPORTANT** : Please note that due to corona Virus pandemic situation (COVID-19) there may be delay in payment of above Item/ Material/ Services.

The bill should be submitted in the name of "Principal, AISSM Society's, College of Engineering, Kennedy Road, Pune 411 001."


Shri Malojiraje Chhatrapati
Honorary Secretary

AISSMS COE, PUNE

1992-2017




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COLLEGE OF ENGINEERING
KENNEDY ROAD, PUNE-411 001

No. 477/A, 4th Phase, Peenya Industrial Estate, Bangalore- 560058.

Original for Recipient

Tel: +91 080 4080 5555, Telefax: 080-40805510,

E-mail: info@ducom.com, Website: www.ducom.com

GSTIN: 29AABCD9145R1ZV, CIN : U29199KA1990PTC010741, PAN NO:AABCD9145R

Tax Invoice

Invoice No: TI-22-23-315	Invoice date : 30.12.2022	Transport Mode : By Road
D.C.No : S 00950	D.C.Date : 30.12.2022	Vehicle number:
Reverse Charge (Y/N):	N	Date of Supply : 30.12.2022
State: Karnataka	Code 29	Place of Supply : Pune 411001

Bill to Party			Ship to Party		
The Principal AISSMS College of Engineering Kennedy Road, Pune 411 001 GSTIN:			The Principal AISSMS College of Engineering Kennedy Road, Pune 411 001 GSTIN:		
State : Maharashtra	Code	27	State : Maharashtra	Code	27

P.O.NO : AISSMSCOE/PO/1266/22-23/Mechanical dtd : 10.10.2022 W O NO : 2231

Sl. No	Product Description	HSN Code	Qty	Rate	Amount	Taxable value	IGST		Total
							Rate	Amount	
1	Four Ball Tester (TR 30 Series) as per : ASTM D2783, D2596, D2266, D4172 & D5183	90268090	1	794,661	794,661	794,661	18	143,039	937,700
2	Digital Image Acquisition System	90268090	1	275,000	275,000	275,000	18	49,500	324,500
3	Automated Loading Arrangement Upto 1000N Load	90268090	1	275,000	275,000	275,000	18	49,500	324,500
4	KRL Shear Stability Attachement	90268090	1	350,000	350,000	350,000	18	63,000	413,000
5	ASTM Standard Test Balls	90268090	1000	85,000	85,000	85,000	18	15,300	100,300
Total						1,779,661		320,339	2,100,000

Amount in words : Rupees Twenty One Lakhs Only	Total Amount before Tax	1,779,661
	Add: IGST	320,339
	Total Amount after Tax:	2,100,000

Bank Details	GST on Reverse Charge
Bank A/C: 10308202223 - Bank IFSC: SBIN0003024, Bank Branch Code - 03024, STATE BANK OF INDIA - P.B.NO.1 SME BRANCH PEENYA INDUSTRIAL AREA, BANGALORE 560 058	Certified that the particulars given above are true and correct  For Ducom Instruments Private Limited
Terms & conditions : - Payment Terms : - 50% Advance & 50% After Installation Warranty : 12 Months from the date of Installation.	

DUCOM INSTRUMENTS PVT. LTD.

477/A, 4TH PHASE, PEENYA INDUSTRIAL AREA, BANGALORE - 560 058.

Tel +91 80 4080 5555, FAX : +91 80 4080 5510, E-mail : info@ducom.com, Website : www.ducom.com



PRINCIPAL
AISSMS COLLEGE OF ENGINEERING
PEENYA INDUSTRIAL AREA,
BANGALORE - 560 058



FORMAT
for
**Annual Progress Report for AICTE funded project under
Modernization and Removal of Obsolescence (MODROBS-ASP)**

File No. : F. No. 9-87/IDC/MOD- ASP/ Policy-1/2021-22
(As mentioned in sanction letter)

Date of Sanction: : 04.03.2022

Subject Area: Metallurgy

1. Project Coordinator (Name and address) : Dr. Bhanudas D. Bachchhav
Department of Mechanical Engineering
All India Shei Shivaji Memorial Society's
College of Engineering, Pune -411 001.
2. Project Title: : Modernisation of Tribology Laboratory for
Performance Evaluation of Nano/Bio
Lubricants
3. Date of Commencement of the Project : 04/03/2022
4. Duration of the Project : 02 years
5. Amount Sanctioned by AICTE : Rs. 16,98,500/-
6. Amount Released by AICTE : Rs. 13,58,800/-
7. Details of Expenditure :

A. NON-RECURRING

S. No.	List of Equipment Procured	Cost (Rs.)
1	Four Ball Tester (TR 30 Series) as per ASTM D2783, D2596, D2266, D4172, & D5183	9,37,700/-
2	Digital Image Acquisition System	3,24,500/-
3	Automated Loading Arrangement Upto 1000N Load	3,24,500/-
4	KRL Shear Stability Attachment	4,13,000/-
Total amount utilized		19,99,700/-
Amount receivable from AICTE under Non-Recurring for 2022-23		2,88,745/-



B. Recurring (Service charges etc.)

S. No.	Items	Cost (Rs.)
1	ASTM standard Test Balls	1,00,300/-
2	Oil sample testing Spike Services and other consumables (*As per list attached)	29,622/-
Total amount utilized till date under Recurring		1,29,922/-
Amount receivable from AICTE		50,955/-

Gross Total (A and B): Rs. 19,99,700 + 1,29,922 = Rs. 21,29,622/-

8. Whether there is any Deviation from the Purpose for which: No Grant was released. If so, Details of Amount to be Given
9. Has this Programme Augmented the Facilities of your Institute/ Department. (If so, please describe in 100 words)

Certainly. To address the requirements of faculty members, postgraduate students, research scholars, practicing engineers from the industry, and lubricant manufacturers, a dedicated "Tribology Lab" has been established within the Department of Mechanical Engineering at AISSMS College of Engineering, Pune. The lab's capabilities have been enhanced through the incorporation of specialized equipment, including the Four Ball Tester with image acquisition system and the KRL Shear Stability attachment. These additions have significantly bolstered the Tribology facilities within the realm of Mechanical Engineering.

The establishment of this lab holds the potential for fostering international collaborative research initiatives. The outcomes of research endeavors undertaken within this facility are anticipated to contribute to prominent international journals renowned for their focus on materials and tribology.

10. Academic Application of the Equipment Procured, if any:

The Four Ball Tester is a crucial piece of equipment with practical applications that hold value both in academic and industrial contexts. The Four Ball Tester allows UG/PG students/research scholars to investigate the friction, wear, and lubrication properties of bio and nano-lubricants. This provides valuable insights into lubricants behavior under different conditions, enabling the development of theories and models related to tribology. Four Ball Tester can be used to conduct controlled experiments, helping students and researchers gain hands-on experience in tribological testing methodologies. The equipment can be used to demonstrate fundamental concepts of tribology in lectures and laboratory sessions also during faculty development programs and workshops. This promotes a deeper understanding of friction, lubrication, and wear phenomena.



The Four Ball Tester assists in the formulation and testing of new lubricant compositions. Industries can evaluate the effectiveness of different formulations and optimize lubricant properties to enhance machinery performance and durability. Industries can benefit from reduced maintenance costs and improved efficiency by selecting the most appropriate lubricants based on Four Ball Tester results. This leads to longer equipment lifetimes and fewer downtimes.

Further, PG and PhD scholars who are pursuing their research in materials will be also get benefitted with these created facilities.

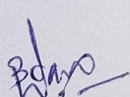
In both academic and industrial settings, the Four Ball Tester contributes significantly to advancing the understanding of tribology and optimizing the performance of materials, lubricants, and mechanical systems.

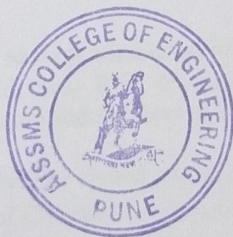
Following Journal papers of international repute are published based on the research work carried out under this scheme with due acknowledgement to All India Council for Technical Education (AICTE), New Delhi for providing financial support under the Modernization and Removal of Obsolescence Aspirational (MODROB-ASP) scheme.:
Papers Published:

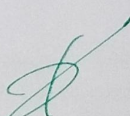
- 1) Sirsath, K.G. and Bachchhav, B.D. (2023), "Tribo-mechanical characterization of Cu-Cr-Zr ternary alloy aimed at fin-tube resistance welding electrode material", Industrial Lubrication and Tribology, <https://doi.org/10.1108/ILT-04-2023-0092>.
- 2) Bachchhav, B.D., Gadakh, V.S. (2023), "Relative Tool Wear and Metal Removal Studies in Electric Discharge Machining of AISI D2 Die Steel Using Cu-Cr-Zr, Cu-Cd, and Cu-Be Electrode Materials". J. of Materi Eng and Perform. <https://doi.org/10.1007/s11665-023-08264-y>.

Papers accepted for publication:

- 1) Bhanudas Bachchhav, Yash Anecha, Balraj Waghmare, (2023), "Tribological Performance Evaluation of TMPTO based Nano-Lubricants" Journal of Manufacturing Engineering,


Dr. Bhanudas D. Bachchhav
Project Coordinator
(Signature and Seal with date)




Dr. D. S. Bormane
Principal
(Signature and Seal with date)

**AISSMSS COE, PUNE-1.
MECHANICAL ENGG. DPTT.**



**FORMAT
for
UTILIZATION CERTIFICATE**

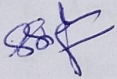
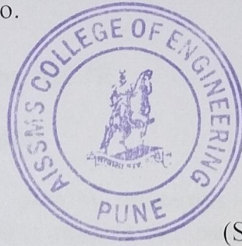
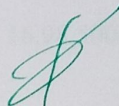
Sanction Letter No.: F. No. 9-87/IDC/MOD- ASP/ Policy-1/2021-22

Date: 04.03.2022

A. NON-RECURRING

Sl. No.	Name of the Equipment Procured	Amount Sanctioned (Rs.)	Amount Utilized (Item wise) (Rs.)	Unspent Balance
1	Four Ball Tester (TR 30 Series) as per ASTM D2783, D2596, D2266, D4172, & D5183	14,43,725/-	9,37,700/-	Nil
2	Digital Image Acquisition System		3,24,500/-	
3	Automated Loading Arrangement Upto 1000N Load		3,24,500/-	
4	KRL Shear Stability Attachment		4,13,000/-	
Total amount (Rs.)		14,43,725/-	19,99,700/-	Nil

Certified that the grant has been utilized for the purpose for which it was sanctioned in accordance with the "Terms and Conditions" attached to the grant. If, as a result of check or audit objection some irregularity is noticed at a later stage, action will be taken to refund, adjust or regularize the amount objected to.

Dr. D S Bormane

Principal

(Signature and Seal with date)


FINANCE & ACCOUNTS OFFICER
Finance Officer
 (Signature and Seal with date)

All India Shri Shivaji Memorial Society's College of Engineering
1, Kennedy Road, Near R. T. O., Pune 411 001. Maharashtra, India.
 Name and Address of the University/ Institution

Note: The Utilization Certificate (UC) will be signed by the Registrar/ Finance Officer in the case of Universities, Principals in the case of Colleges and Executive Heads of other Institutions. The Provisional UC may be countersigned by the internal auditors wherever the system of the internal audit exists. In case of the Self Financing/ Private Institutions, UC has to be signed by a Chartered Accountant.

*This is to be submitted for every financial year.

**FOR R. P. MUTHA & ASSOCIATES
 CHARTERED ACCOUNTANTS**


RAKESH P. MUTHA

PARTNER

M. NO. 118465

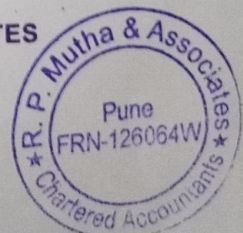
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UDIN: 99-PRINCIPAL-405BGXKFH7499.

ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
 COLLEGE OF ENGINEERING
 KENNEDY ROAD, PUNE-411 001



FORMAT
for
PROJECT COMPLETION REPORT FOR MODROBS PROGRAMME

File No. : F. No. 9-87/ IDC/MOD- ASP/Policy -I/2021 -22
(As mentioned in sanction letter)

Date of Sanction: 04.03.2022

Subject Area: Tribology

1. Project Coordinator (Name and address) : Dr. Bhanudas Bachchhav
All India Shri Shivaji Memorial
Society's College of Engineering, I,
Kennedy Road, Near RTO, Pune
411001, Maharashtra.
2. Project Title : "Modernization of Tribology Laboratory
for Performance Evaluation of Nano/Bio Lubricants"
3. Date of Commencement of the Project : 04/03/2022
4. Duration of the Project : 2 years
5. Date of Completion : Sept. 2023
6. Amount Sanctioned by AICTE : Rs. 16,98,500/-
7. Objectives of the Project :

Nano/bio lubricants present numerous advantages; however, their effectiveness depends on the distinct composition, usage, and operational circumstances. Thus, it is imperative to subject them to thorough assessment in accordance with ASTM standards (such as ASTM D2783, ASTM D2596, ASTM D2266, ASTM D4172, ASTM D5183) to ascertain their appropriateness within specific industrial contexts. Moreover, leveraging insights from experts and engaging with lubricant manufacturers can offer invaluable assistance in choosing the most fitting nano/bio lubricant for a given industrial environment. The core aim of this project revolves around appraising the performance of Nano/Bio Lubricants and gauging their viability for industrial usage. This facility is poised to primarily function as an experimental hub catering to needs of UG/PG students, research scholars from various institutes and industry professionals engaged in this domain.



8. Details of Expenditure

A. NON-RECURRING

S. No.	List of Equipment Procured	Cost (Rs.)
1	Four Ball Tester (TR 30 Series) as per ASTM D2783, D2596, D2266, D4172, & D5183	9,37,700/-
2	Digital Image Acquisition System	3,24,500/-
3	Automated Loading Arrangement Upto 1000N Load	3,24,500/-
4	KRL Shear Stability Attachment	4,13,000/-
Total amount (Rs.)		19,99,700/-

9. Future Plans for Utilizing the Equipment: and/ or Facilities Created.

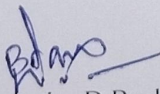
We extend our sincere gratitude to AICTE for granting approval to our proposal. The equipment secured through the MODROBS-ASP scheme will be instrumental in conducting comprehensive performance assessments of Nano and Bio Lubricants.

These equipment additions stand as valuable assets for the department, earmarked to benefit undergraduate, postgraduate, and doctoral students across various programs within the Institute, including Mechanical Engineering, PG Design Engineering, and Automation & Robotics. Furthermore, in the coming times, there is a potential to extend the utilization of these equipment to aid students from parent as well as neighboring institutes in their research endeavors, specifically for lubricant testing and characterization. This modern facility has broadened the scope of research activities for faculty members. All such activities will be carried out in strict accordance with the guidelines and norms outlined by AICTE.

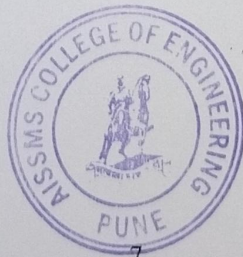
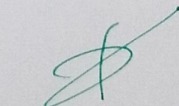
10. Whether There is Any Deviation from the Purposes for which:

Grant was released. If so Details of Deviations to be Given.

No. there is no deviation from the purpose for which the Grant was released. The allocation has been strictly adhered to for its designated use.



Dr. Bhanudas D Bachchhav
Project Coordinator
(Signature and Seal with date)

Dr. D S Bormane
Principal
(Signature and Seal with date)

AISSMSS COE, PUNE-1.
MECHANICAL ENGG. DPTT.



PRINCIPAL
ALL INDIA SHRI SHYAMAL MEMORIAL SOCIETY'S
COLLEGE OF ENGINEERING
KENNEDY ROAD, PUNE-411 004



AISSMS COLLEGE OF ENGINEERING



Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra,
Affiliated to Savitribai Phule Pune University and recognized under 2(f) and 12 (B) by UGC
(Id.No.PU/PN/Engg./093 (1992), AISHE Code No. C-41227
Accredited by NAAC with A+ Grade

SHRI MALOJIRAJE CHHATRAPATI
Honorary Secretary

Dr. D. S. BORMANE
Principal

ANNEXURE – IX

AUDITED UTILISATION CERTIFICATE

Certified that out of Rs. 13,58, 800/- (first installment of total sanctioned grant –in-aid Rs. 16, 98,500/-) of Grant- in – aid sanctioned during the year 2021-22 Letter No. F. No. 9-87/ IDC/MOD-ASP/ Policy-1/2021-22 dated 04.03.2022, Rs. 19,99,700/- (Non-Recurring) and Rs. 1,29,922/-(Recurring) has been utilized for the purpose of MODROBS for which it was sanctioned and the balance remaining unutilized amount at the end of the year will be adjusted towards the Grants – in – aid payable during the next year i.e., 2022-23 as per the details attached.

Certified that the grant has been utilized as per laid down terms and conditions for which it was sanctioned.

Finance Officer
FINANCE & ACCOUNTS OFFICER
(Signature and Seal with date)
AISSMS COLLEGE OF ENGINEERING PUNE



Dr. D S BORMANE
Principal
(Signature and Seal with date)
AISSMS COE, PUNE.

FOR R. P. MUTHA & ASSOCIATES
CHARTERED ACCOUNTANTS

RAKESH P. MUTHA 19 DEC 2023
PARTNER
M. NO. 118465
UDIN#-237784653GXKF177499.
Chartered Accountant
(Signature and Seal with date)

