

# Number of collaborative activities with other institutions

2021-2022



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## *Maharaja Ganga Singh University*

A State University of Higher Education for Dignity and Self-Reliance

Approved by UGC under Section 12B of the UGC Act 1956

NH 15, Jaisalmer Road, Bikaner-334004 (Rajasthan), India

<https://mgsubikaner.ac.in>

No. NGP/TPN-34240/Harwani/2020(C)

Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi -110016  
Date: 03/03/2021

**Sanction Order**

**Subject:** Financial Support for the Project entitled "GIS Mapping of Microbial Population for their Geographical Position, Geological and Geochemical Habitats to Explore Oil and Gas Reservoirs in Jaisalmer Sub-Basins of Thar Desert" by Dr. Dharmesh Harwani, Assistant Professor, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan in collaboration with Dr. M. P. Punia, Head, Remote Sensing Division, Birla Institute of Scientific Research, Statue Circle, Jaipur-302001.

1. Sanction of the President is hereby accorded for the implementation of above-mentioned project at a total cost of **Rs. 48,46,664/-** (Rupees Forty-eight lakhs, Forty-six thousand, Six hundred and Sixty-four only) for a period of 3 years, only with breakup of **Rs. 1,75,000/- under Capital Head** (Non-recurring grants) and **Rs.19,76,400/- under General Head** (Recurring grants) to The Registrar, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan and **Rs. 26,95,264 under General Head** only to Birla Institute of Scientific Research, Jaipur-302001. The total amount **under General Head for both institutes combined is Rs. 46,71,664/-**. The breakup of Rs.1,75,000/- for the Capital Head is given below:

**Capital Assets: Rs.1,75,000/- (first year release)**

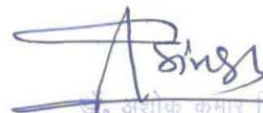
S. No.	Budget Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total amount
A	<b>Non-Recurring (Capital)</b>				
1	Incubator Shaker	175000	0	0	175000
<b>Total A Non-Recurring (Capital)</b>		<b>175000</b>	<b>0</b>	<b>0</b>	<b>175000</b>

2. The expenditure involved is debit able to Demand No.87, Department of Science & Technology:  
3425 Other Scientific Research (Major Head)  
60 Other (Sub Major Head)  
60.200 Assistance to other scientific bodies (Minor head)  
70 Innovation, Technology Development and Deployment.  
70.00.35 Grants-in-aid Capital for the year 2020-21  
(Previous: TDP-NRDMS-3425.60.200.26.01.31)
3. Sanction of the President is also accorded for release of Rs.1,75,000/- (Rupees One Lakh Seventy-Five Thousand only) under Capital Head to be drawn by the drawing and disbursing officer, Department of Science & Technology and disbursed to the Registrar, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan through their bank account as per the details appended below:

4.

Agency Name	Registrar, Maharaja Ganga Singh University, Bikaner
Account No.	4142011800000014
Bank Name	Punjab National Bank
IFSC Code	PUNB0472000

5. This sanction is subject to the condition that the grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up-to-date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of

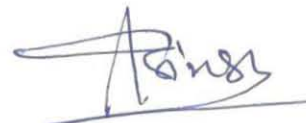


Dr. A. K. Singh

Scientist 'E'

विज्ञान और प्रौद्योगिकी विभाग

- submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
6. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
  7. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
  8. The grant-in-aid being released is subject to the condition that
    - c. A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above-mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant:
    - d. While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
  9. The grantee organisation will maintain separate audited account for the project and the entire amount of grant will be kept in an interest-bearing bank account. For grants released during F.Y. 2017-2018 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. ([www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. The interest earned / accrued should be reported to DST (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. A certificate to this effect shall have to be submitted along with Statement of Expenditure / Utilization Certificate for considering subsequent release of Grant / closure of Project accounts.
  10. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
  11. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
  12. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
  13. MGSU, Bikaner and BISR, Jaipur agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under their control on the lines indicated by the Government of India.
  14. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
  15. It is mandatory for the purchase of Goods (consumables/equipments) items only through Government e-Marketplace (Gem), to the extent available, as the project involves government funding.



डॉ. अशोक कुमार सिंह / Dr. A. K. Singh  
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DEPTT. OF SCIENCE & TECHNOLOGY  
भारत सरकार / Govt. of India



16. Continuation of the scheme/ programme beyond 31st March, 2021 will be subject to appraisal and approval of the continuation of the Umbrella scheme "Innovation, Technology Development & Deployment" under which the project is funded.
17. This sanction issues in exercise of the powers conferred on this Department and in consultation with the IFD vide their Concurrence Dy. No. C/5432/IFD/2020-21 dated 03.03.2021.
18. It has been entered at Sl. No. 14/31 in the Registrar of Grants (2020-21).



(Dr. A.K. Singh)

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DEPTT. OF SCIENCE & TECHNOLOGY  
भारत सरकार / Govt. of India  
नई दिल्ली-110016 / New Delhi-110016

To

PAO, DST, New Delhi.

Copy forwarded for information and necessary action to:

1. The Director of Audit (CW & M-II), Indraprastha Estate, AGCR Building, New Delhi.
2. Copy with a spare copy of sanction to the Drawing and Disbursing Officer, DST, Cash section for making necessary payment to grantee.
3. IF Division, DST, New Delhi.
4. Account Section, DST, New Delhi.
5. Sanction Folder.
6. Dr. Dharmesh Harwani, Assistant Professor, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan.
7. Prof. Rajaram Choyal, Professor-Director, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan.
8. The Director, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan.
9. Head, NGP division, DST, New Delhi.



(Dr. A.K. Singh)

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# Public Financial Management System-PFMS

(formerly CPSMS)

O/o Controller General of Accounts, Ministry of Finance

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## Payee Details

**Controller:** 037-SCIENCE AND TECHNOLOGY **Sanction Status:** Approved

**Sanction Number:** NGP/TPN-34240/Harwani/2020(C) **Sanction Date:** 03/03/2021

**Sanction Type:** Transfer (DDO Bill) **Sanction Amount:** 175000

**IFD Number:** 5432 **IFD Date:** 03/03/2021

**Scheme:** 1819-INNOVATION, TECHNOLOGY DEVELOPMENT AND DEPLOYMENT **PAO:** 058296-PAO(DST), New Delhi

**DDO:** 258297-DEPARTMENT OF SCIENCE & TECHNOLOGY (INCLUDING,NCST) **Remarks:** 1st Installment Capital

North East Expenditure

### Account Details:

Grant	Department (For*UT Grants Only)	Function Head	Object Head	Category	Amount	External PAO	Available Budget
087 - Department of Science and Technology		3425602007000 - INNOVATION TECHNOLOGY DEVELOPMENT AND DEPLOYMENT	35 - GRANTS FOR CREATION OF CAPITAL ASSETS	5 - VOTED	175000		2109556533

Agency	Bank Account No	Amount	Instrument Type
MAHARAJA GANGA SINGH UNIVERSITY, BIKANER	414201180000014 - MGS UNIVERSITY B	175,000.00	RTGS

### ePayment Details

Accredited Bank : UNION BANK OF INDIA Amount : 175000 Not Payable Before : Required

Party Name	IFSC Code	Party Account No	Amount	Payee Remarks
MGS UNIVERSITY BI	PUNB0472000	414201180000014	175000	1st Installment Capital

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

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No. NGP/TPN-34240/Harwani/2020(G)

Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhawan,  
New Mehrauli Road,  
New Delhi -110016  
Date: 03/03/2021

**Sanction Order**

**Subject:** Financial Support for the Project entitled "GIS Mapping of Microbial Population for their Geographical Position, Geological and Geochemical Habitats to Explore Oil and Gas Reservoirs in Jaisalmer Sub-Basins of Thar Desert" by Dr. Dharmesh Harwani, Assistant Professor, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan in collaboration with Dr. M. P. Punia, Head, Remote Sensing Division, Birla Institute of Scientific Research, Statue Circle, Jaipur-302001.

**PI 1<sup>st</sup> Institute:** Dr. Dharmesh Harwani, Assistant Professor, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004

**PI 2<sup>nd</sup> Institute:** Dr. M. P. Punia, Head, Remote Sensing Division, Birla Institute of Scientific Research, Statue Circle, Jaipur-302001.

1. Sanction of the President is hereby accorded for the implementation of above-mentioned project at a total cost of **Rs. 48,46,664/-** (Rupees Forty-eight lakhs, Forty-six thousand, Six hundred and Sixty-four only) for a period of 3 years, only with breakup of **Rs. 1,75,000/- under Capital Head** (Non-recurring grants) and **Rs.19,76,400/- under General Head** (Recurring grants) to The Registrar, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan and **Rs. 26,95,264 under General Head** only to Birla Institute of Scientific Research, Jaipur-302001. The total amount **under General Head for both institutes combined is Rs. 46,71,664/-**. The items of expenditure for which the total allocation of Rs. 48,46,664/- has been approved are given below:

**Capital Assets: Rs. 1,75,000/- (First year release)**

**General Components: Rs. 7,66,800/- to MGSU and Rs. 11,89,672/- to BISR (First year release)**

**Budget component for MGSU, Bikaner—**

(Amount in Rupees)

S. No.	Budget Head	1st year	2nd year	3rd year	Total amount
<b>A</b>	<b>Non-Recurring (Capital)</b>				
1	Incubator Shaker	175000	0	0	175000
<b>Total A</b>	<b>Non-Recurring (Capital)</b>	<b>175000</b>	<b>0</b>	<b>0</b>	<b>175000</b>
<b>B.</b>	<b>Recurring (General)</b>				
1	Manpower: Two Project Assistant @ Rs. 15,000 p.m. Consolidated	360000	360000	360000	1080000
2	Travel	50000	50000	50000	150000
3	Consumables (pg. /c)	250000	150000	50000	450000
4	Contingencies	50000	50000	50000	150000
5	Overhead@8%	56800	48800	40800	146400
<b>Total B</b>	<b>Recurring (General)</b>	<b>766800</b>	<b>658800</b>	<b>550800</b>	<b>1976400</b>
	<b>Total A+B</b>	<b>941800</b>	<b>658800</b>	<b>550800</b>	<b>2151400</b>

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**Budget component for BISR, Jaipur—**

S. No.	Budget Head	1st year	2nd year	3rd year	Total amount
<b>A.</b>	<b>Recurring (General)</b>				
1	<b>Manpower: One JRF</b> @ Rs. (31,000 + 16% HRA) = 35960 p.m. for 1st and 2nd year & Rs. (35,000 + 16% HRA) = 40600 p.m. for 3rd year	431520	431520	487200	1350240
2	Metagenome Sequencing	350000	100000	0	450000
3	Travel	50000	50000	50000	150000
4	Consumables (pg. /c)	200000	100000	50000	350000
5	Contingencies	50000	50000	50000	150000
6	Overhead@10%	108152	73152	63720	245024
<b>Total A Recurring (General)</b>		<b>1189672</b>	<b>804672</b>	<b>700920</b>	<b>2695264</b>
<b>Total A</b>		<b>1189672</b>	<b>804672</b>	<b>700920</b>	<b>2695264</b>


2. The expenditure involved is debit able to Demand No.87, Department of Science & Technology:

3425	Other Scientific Research (Major Head)
60	Other (Sub Major Head)
60.200	Assistance to other scientific bodies (Minor head)
70	Innovation, Technology Development and Deployment.
70.00.31	Grants-in-aid General for the year 2020-21 (Previous: TDP-NRDMS-3425.60.200.26.01.31)

3. Sanction of the President is also accorded for release of Rs. 7,66,800/- (Rupees Seven Lakhs, Sixty-six Thousand and Eight Hundred Only) under General Head to be drawn by the drawing and disbursing officer, Department of Science & Technology and disbursed to the Registrar, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan through their bank account as per the details appended below:

Agency Name	Registrar, Maharaja Ganga Singh University, Bikaner
Account No.	4142011800000014
Bank Name	Punjab National Bank
IFSC Code	PUNB0472000

4. This sanction is subject to the condition that the grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up-to-date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
5. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
6. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
7. The grant-in-aid being released is subject to the condition that

  
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 DEPT. OF SCIENCE & TECHNOLOGY



- a. A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above-mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant:
  - b. While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
8. The grantee organisation will maintain separate audited account for the project and the entire amount of grant will be kept in an interest-bearing bank account. For grants released during F.Y. 2017-2018 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. (www.bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. The interest earned / accrued should be reported to DST (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. A certificate to this effect shall have to be submitted along with Statement of Expenditure / Utilization Certificate for considering subsequent release of Grant / closure of Project accounts.
  9. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
  10. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
  11. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
  12. MGSU, Bikaner and BISR, Jaipur agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under their control on the lines indicated by the Government of India.
  13. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
  14. It is mandatory for the purchase of Goods (consumables/equipments) items only through Government e-Marketplace (Gem), to the extent available, as the project involves government funding.
  15. Continuation of the scheme/ programme beyond 31st March, 2021 will be subject to appraisal and approval of the continuation of the Umbrella scheme "Innovation, Technology Development & Deployment" under which the project is funded.
  16. This sanction issues in exercise of the powers conferred on this Department and in consultation with the IFD vide their Concurrence Dy. No. C/5441/IFD/2020-21 dated 03.03.2021.
  17. It has been entered at Sl. No. 140/31 in the Registrar of Grants (2020-21).



(Dr. A.K. Singh)

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DEPT. OF SCIENCE & TECHNOLOGY  
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To

PAO, DST, New Delhi.

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5. Sanction Folder.
6. Dr. Dharmesh Harwani, Assistant Professor, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan.
7. Prof. Rajaram Choyal, Professor-Director, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan.
8. The Director, Thar Desert Research Centre, Maharaja Ganga Singh University, Bikaner-334004, Rajasthan.
9. Dr. M.P. Punia, Head, Remote Sensing Division, Birla Institute of Scientific Research, Statue Circle, Jaipur
10. The Director, Birla Institute of Scientific Research, Statue Circle, Jaipur
11. Head, NGP division, DST, New Delhi.



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North East Expenditure

Account Details:

Grant	Department (For UT Grants Only)	Function Head	Object Head	Category	Amount	External PAO	Available Budget
087 - Department of Science and Technology		3425602007000 - INNOVATION TECHNOLOGY DEVELOPMENT AND DEPLOYMENT	31 - GRANTS-IN-AID GENERAL	5 - VOTED	766800		1388887944

Agency	Bank Account No	Amount	Instrument Type
MAHARAJA GANGA SINGH UNIVERSITY, BIKANER	4142011800000014 - MGS UNIVERSITY B	766,800.00	RTGS

**ePayment Details**

Accredited Bank : UNION BANK OF INDIA Amount : 766800 Not Payable Before : \* Required

Party Name	IFSC Code	Party Account No	Amount	Payee Remarks
MGS UNIVERSITY B	PUNB0472000	4142011800000014	766800	1st Installment General

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

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MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

BNF & MICROBIAL GENOMICS LABORATORY, DEPARTMENT OF BOTANY, JAI  
NARAYAN VYAS UNIVERSITY, JODHPUR

AND

ENZYME TECHNOLOGY LABORATORY, DEPARTMENT OF MICROBIOLOGY,  
MAHARAJA GANGA SINGH UNIVERSITY, BIKANER

This MoU is entered into on the Tuesday day of 4-7, 2017 by and between Enzyme Technology Laboratory, Department of Microbiology of Maharaja Ganga Singh University (herein after called ETL-MGSU) a State University situated at Bikaner (Rajasthan) established by the State Govt. Act. No. 12 of 2002 dated June 7, 2002

and

BNF& Microbial Genomics Lab, Department of Botany of Jai Narayan Vyas University (hereinafter called BNFMGL-JNVU) a State University situated at Jodhpur (Rajasthan) established by the State Govt. Act. Act (XVII), dated Aug 24, 1982

The aforesaid Laboratories are hereinafter referred to individually as *Lab* and collectively as *Labs*.

**1. Objectives of the MoU**

The objectives of the MoU are to promote:

- i) Joint research activities
- ii) Exchange of academic materials and other information

**2. Technical areas of collaboration**

- i) To provide academic interaction by delivering special lectures at ETL-MGSU / BNFMGL- JNVU on topics related to Microbiology and Biotechnology.
- ii) Usage of academic infrastructure of ETL-MGSU / BNFMGL- JNVU by students, research scholars and faculty members of BNFMGL- JNVU / ETL-MGSU.

**3. Proposed mode of Collaboration**

ETL-MGSU and BNFMGL-JNVU propose to collaborate through the following:

- i) Cooperation and promotion of education and training in areas of mutual interest.

- ii) Any other appropriate mode of interaction mutually agreed upon between ETL-MGSU / BNFMGL- JNVU.

#### 4. Terms and conditions

- i) The cost of infrastructure development at ETL-MGSU / BNFMGL- JNVU should be borne by the concerned Lab.
- ii) For continuing training and research support to ETL-MGSU / BNFMGL-JNVU teachers, staff, research scholars and students, the financial arrangement will be made on mutually agreed terms.
- iii) For the visits related to advice and consultancy, travel and other expenses of ETL-MGSU / BNFMGL-JNVU faculty, staff, scholars and students shall be reimbursed by the respective Lab/University on mutually agreed terms.
- iv) Usage of ETL-MGSU / BNFMGL- JNVU academic infrastructure can be allowed, subject to its availability, approval of the respective Head of the facility/ department and/or respective University norms.
- v) This MoU may be amended, renewed and terminated by mutual written agreement of the *Labs* at any time.
- vi) Either Department shall have the right to terminate this MoU upon 60 days prior written notice to the other *Lab*.

#### 5. Confidentiality

- i) The ETL-MGSU and the BNFMGL- JNVU agree to hold in confidence all information/data designated by the *Labs* as being confidential which is obtained from either *Lab* or created during the performance of the MoU and will not disclose the same to any third party without consent of the other *Lab*.
- ii) The above confidential clause under the MoU excludes the information/data possessed by either *Lab* before entering into this MoU or independently developed and/or information already available through public domain.

#### 6. Duration of MoU

This MoU, unless extended by mutual written consent of the *Labs*, shall expire in five years after the effective date specified in the opening paragraph. However, on review, the MoU shall be extended for another two years on mutual consent.

**7. Coordinators**

Both the Lab In-charges would coordinate and implement this agreement.

**8. Intellectual Property Rights & Research Publications**

The intellectual property (IPR) rights that arise as a result of joint research and collaborative activity under the agreement will be worked out on a case to case basis and will be consistent with officially laid down IPR policies of the two *Universities*.

Any publication on the basis of academic collaboration between individual Labs/Lab In-charges would be shared (as author and co-author) by the collaborating Scientist/Faculty members/Members involved in undertaking the joint research work.

**9. Signed in Duplicate**

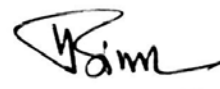
This Mou is executed in duplicate with each copy being an official version and having equal legal validity. By signing below, the *Labs*, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first written above.

On behalf of

On behalf of

Gautam KR.  
ETL-MGSU  
Maharaja Ganga Singh University,  
Bikaner

Head  
Department of Microbiology  
Maharaja Ganga Singh University  
NH-15, Bikaner

  
BNFMGL- JNVU  
DR H. S. GEHLOT  
Department of Botany  
Jodhpur  
J.V. Vyas University, JODHPUR



**MEMORANDUM OF UNDERSTANDING (MOU)**

BETWEEN

ENGINEERING COLLEGE BIKANER, BIKANER

AND

DEPARTMENT OF MICROBIOLOGY, MAHARAJA GANGA SINGH UNIVERSITY,  
BIKANER

This MoU is entered into on the ----- day of ~~12-1~~, 2019 by and between Department of Microbiology of Maharaja Ganga Singh University (herein after called DoM-MGSU) a State University situated at Bikaner (Rajasthan) established by the State Govt. Act. No.13 of 2003, dated 07-06-2003

and

Engineering College Bikaner, an Autonomous institute of Government of Rajasthan situated at Bikaner (Rajasthan) established by the Societies Registration. Act.1999 -----

The aforesaid Laboratories are hereinafter referred to individually as *Lab* and collectively as *Labs*.

**1. Objectives of the MoU**

The objectives of the MoU are to promote:

- i) Joint research activities
- ii) Faculty and Student Exchange
- iii) Exchange of academic materials and other information

**2. Technical areas of collaboration**

- i) To provide academic interaction by delivering special lectures at DoM-MGSU / ECB on topics related to Science and Technology.
- ii) Usage of academic infrastructure of DoM-MGSU / ECB by students, research scholars and faculty members of DoM-MGSU/ ECB.
- iii) To provide a provision for joint supervision of M.Sc/ M.Tech./Ph.D students

**3. Proposed mode of Collaboration**

DoM-MGSU and ECB propose to collaborate through the following:

- i) Cooperation and promotion of education and training in areas of mutual interest.
- ii) Any other appropriate mode of interaction mutually agreed upon between DoM-MGSU / ECB.

#### 4. Joint Sponsored Research and Consultancy Projects

DoM-MGSU and ECB staff will undertake jointly sponsored research and consultancy projects according to the following terms:

- i) Project proposals will be formulated jointly by the concerned faculty/experts of the two Institutions.
- ii) Project would require approval of both the Institutions.
- iii) Income arising out of the consultancy works will be shared by the two Institutions on the basis of inputs and approved norms in each Institution. Consultancy/ man-months and cost of project will be calculated on the basis of input.

#### 5. Terms and conditions

- iv) The cost of infrastructure development at DoM-MGSU / ECB should be borne by the concerned Lab.
- v) For continuing training and research support to DoM-MGSU / ECB teachers, staff, research scholars and students, the financial arrangement will be made on mutually agreed terms.
- vi) For the visits related to advice and consultancy, travel and other expenses of DoM-MGSU / ECB faculty, staff, scholars and students shall be reimbursed by the respective Lab/University on mutually agreed terms.
- vii) Usage of DoM-MGSU / ECB academic infrastructure can be allowed, subject to its availability, approval of the respective Head of the facility/ department and/or respective University/ Institute norms.
- viii) This MoU may be amended, renewed and terminated by mutual written agreement of the *Labs* at any time.
- ix) Either Department shall have the right to terminate this MoU upon 60 days prior written notice to the other *Lab*.

#### 6. Confidentiality

- i) The DoM-MGSU and the ECB agree to hold in confidence all information/data designated by the *Labs* as being confidential which is obtained from either *Lab* or created during the performance of the MoU and will not disclose the same to any third party without consent of the other *Lab*.
- ii) The above confidential clause under the MoU excludes the information/data possessed by either *Lab* before entering into this MoU or independently developed and/or information already available through public domain.

**7. Duration of MoU**

This MoU, unless extended by mutual written consent of the *Labs*, shall expire in five years after the effective date specified in the opening paragraph. However, on review, the MoU shall be extended for another period of time on mutual consent.

**8. Coordinators**

Both the Head of departments or Nominated members would coordinate and implement this agreement.

**9. Intellectual Property Rights & Research Publications**

The intellectual property (IPR) rights that arise as a result of joint research and collaborative activity under the agreement will be worked out on a case to case basis and will be consistent with officially laid down IPR policies of the two .

Any publication on the basis of academic collaboration between individual Labs/Lab In-charges would be shared (as author and co-author) by the collaborating Scientist/Faculty members/Members involved in undertaking the joint research work.

**10. Signed in Duplicate**

This MoU is executed in duplicate with each copy being an official version and having equal legal validity. By signing below, the *Labs*, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first written above.

On behalf of

**.Registrar**  
MGS University, Bikaner  
DoM-MGSU  
19/1/19

Maharaja Ganga Singh University,  
Bikaner

On behalf of

  
ECB

Engineering College Bikaner  
Bikaner

शुभ - 29804 - 15070 19-1-19





## Certificate of Association



We Certify that Hemchandracharya North Gujarat University, Patan  
and Maharaja Ganga Singh University, Bikaner entered into a  
Memorandum of Understanding.

We further commit to remain associated Professionally/Technically in the  
Field of Academics, Research and Capacity Building.

Registrar  
MGS University,  
Bikaner

I/C Registrar  
H.N.G. University,  
Patan

*In the Auspicious Presence of*

Prof. B. A. Prajapati  
Vice Chancellor,  
Hemchandracharya North Gujarat University, Patan





INDIAN INSTITUTE OF TECHNOLOGY DELHI  
Department of Civil Engineering  
Hauz khas, New Delhi-110016

Dr. Gazala Habib  
Associate Professor

Phone: +91-11-26591192 (Office)  
+91-9971122485 (Mobile)  
Email: gazala@civil.iitd.ac.in

October 31, 2018

To,  
Prof. A. K. Chhangani (Project Investigator)  
Department of Environmental Sciences  
Maharaja Ganga Singh University  
NH-15, Jaisalmer Road  
Bikaner-334004, Rajasthan

**Subject:** MOU for air quality monitoring at Maharaja Ganga Singh University under National Carbonaceous Aerosol Program-Carbonaceous Aerosol Emissions, Source apportionment & Climate Effects (NCAP-COALESCE).

Respected Prof. Chhangani,

As per our discussion and meeting with honorable vice chancellor, registrar and finance officer on 29/10/2013 at Maharaja Ganga Singh University, Bikaner, the air pollution monitoring activity at your institute under NCAP-COALESCE project funded by Ministry of Environment and Forest-Climate Change will start soon. This activity at MGSU under academic collaboration with IIT Delhi will benefit your institute in following aspects.

1. Training of man power for measurement of emissions from various sources including biomass fuel in cooking stoves, open biomass burning after harvest, brick kiln and vehicles using a custom build source sampling train developed by IIT Delhi and IIT Bombay.
2. Training of man power for Super SASS 8-channel aerosol collection sampler with denuder.
3. Participation of students in survey related to residential sector, agricultural sector, brick kiln and vehicles using digital application provided by IIT Bombay.
4. Enabling Msc/MTech theses of students of MGSU (co-guided by Prof. A. K. Chhangani & Prof. Gazala Habib), exploiting the field survey and sampling data, along with additional analysis using meteorology/ trajectory/ source apportionment/ other models.
5. TA/DA of one student visiting any collaborative institutes for training will be paid from 'Travel head' of the NCAP-COALESCE project at IIT Delhi.
6. TA/DA of PI (Prof. A. K. Chhangani) for attending review meetings will be paid from 'Travel head' of the NCAP-COALESCE project at IIT Delhi.
7. The infrastructure and consumable for conducting the measurement at MGSU will be supported by IIT Delhi.
8. The authorship on publication/publications will be decided as per NCAP policy document approved to MOEF-CC.

A technical staff appointed by IIT Delhi will be responsible for operation and maintenance of instruments. The accommodation of technical staff in guesthouse/hostel will be provided by MGSU. The electricity for running the instrument will be provided by MGSU. The instruments including SASS sampler, aethalometer, nephelometer etc. will be loaned to MGSU and will remain the property of IIT Delhi.

Looking forward to your support,

Thanking you,

Yours Sincerely,

Prof. Gazala Habib  
(PI: IIT Delhi)

Prof. A. K. Chhangani  
(PI: MGSU) BIKANER  
Professor & Head  
Department of Environmental Science  
Maharaja Ganga Singh University  
Bikaner



## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) made and executed at Jaipur on 22nd June, 2020 between **Maharaja Ganga Singh University, Bikaner** having its campus N.H. 15, Jaisalmer Road, Bikaner (hereinafter referred to as MGSU or FIRST PARTY which expression shall, unless it is repugnant to the subject or context thereof, include its successors, assignees and /or nominees)

And

**RAJASTHAN ILD SKILLS UNIVERSITY , JAIPUR** having its campus at 2<sup>nd</sup> 3<sup>rd</sup> Floor, Rajiv Gandhi Vidhya Bhawan, Shiksha Sankul, JLN Marg, Jaipur – 302 017 (hereinafter referred to as **RISU , Jaipur** which expression shall, unless it is repugnant to the subject or context thereof, include its successors, assignees and /or nominees)

Whereas

**Maharaja Ganga Singh University, Bikaner** has been established by the University of Bikaner Act, 2003 (Act No. 13 of 2003) holds the distinction of being premier state University of higher learning in Rajasthan. The main objective of the University has been the creation and dissemination of knowledge.

And Whereas

**RAJASTHAN ILD SKILLS UNIVERSITY , JAIPUR** is a State University of Rajasthan established under the provisions of Rajasthan Ild Skills University Act , 2017 (Act no. 6 of 2017) for imparting skill education and training in the state of Rajasthan

### 1. Scope of MoU:

Both the parties in principle agree to work in the following areas of collaboration:

- a) cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests.
- b) collaborate in curriculum development for skill education and General education
- c) provide mutual access to facilities for the academic purposes as mutually agreed between the parties prior to commencement of the activity:
- d) conduct short courses, as mutually agreed in writing between the parties prior to commencement of this activity:
- e) areas of collaboration may be proposed by either institution and may include, but are not limited to:
  - Joint teaching, research, or cultural activity;
  - Mobility of faculty, scholars, and students between institutions;
  - Staff professional development;
  - Sharing or creation of educational materials and resources.

The RISU offers Concurrent Skills Courses to the students enrolled with other State Funded University as per its regulations. These courses in skill education can be taken up concurrently with the main course for

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## MEMORANDUM OF UNDERSTANDING

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And

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- b) collaborate in curriculum development for skill education and General education
- c) provide mutual access to facilities for the academic purposes as mutually agreed between the parties prior to commencement of the activity:
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- Joint teaching, research, or cultural activity;
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- Staff professional development;
- Sharing or creation of educational materials and resources.

The RISU offers Concurrent Skills Courses to the students enrolled with other State Funded University as per its regulations. These courses in skill education can be taken up concurrently with the main course for

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## 5 Force Majeure

5.1 If the performance of the obligations under this Memorandum of Understanding is prevented by reason of any contingencies, which could have been reasonably avoided and are beyond the control of the parties, the party so affected shall not be liable to the other for damages to the extent of such prevention. Such contingencies include strikes of workers, fire, flood, explosion, riots sabotage, acts of God and war or enemy action.

## 6 Notice

6.1 Save as hereinbefore otherwise provided, any notice required to be given hereunder shall be sufficiently given to each other if forwarded by registered post, speed post, courier, to the last known postal address of the parties. Every notice shall be deemed to have been received and given at the time when in the ordinary course of transmission it should have been delivered at the address to which it was sent.

## 7 Indemnity:

7.1 Both parties shall indemnify the each other against all losses, damages or claims that may arise out of any unauthorized representations made by their employees or representatives.

In witness thereof the parties have set their hands and seal on the day month and year first written.

For  
Maharaja Ganga Singh University, Bikaner

Trivedi  
22-6-2020  
Vice Chancellor, (Prof P.C. Trivedi)  
Maharaja Ganga Singh University, Bikaner,  
Witness:

(i) Ashok Nagawal  
(ii) (K. Mathur)

For  
Rajasthan ILD Skills University, Jaipur

Latit Kanwar  
22.6.20  
Vice Chancellor, (Do. Latit Kanwar)  
Rajasthan ILD Skills University, Jaipur  
Witness:

(i) Registrar RISU  
(ii) P.M. Tripathi  
COE RISU



## **THE MEMORANDUM OF UNDERSTANDING (MOU)**

1. **Swami Keshwanand Rajasthan Agricultural University (SKRAU)**, an ICAR accredited State Agricultural University, Bikaner, Rajasthan, India-334006 herein after referred to as "SKRAU" with a dedicated mandate of teaching, research and extension in agriculture and its allied subjects

**and**

2. **Maharaja Ganga Singh University(MGSU)**, a State Multi-faculty University, Bikaner, Rajasthan, India herein after referred to as "MGSU" with a committed mandate of strengthening four-fold fundamentals of higher education– teaching, research, extension and consultancy

Both SKRAU and MGSU jointly agree:

1. To undertake joint research projects in the areas of mutual interest.
2. To share the facilities for carrying out collaborative research and other academic programmes.
3. To organize academic activities and development programmes of mutual interest potentially beneficial and agreed by both the Universities.
4. To share laboratory, research farm, library and other supporting facilities for joint research projects as well as for students.
5. To facilitate and coordinate student research work and permitting the faculty to be member/ co-advisor of advisory committee(s) for teaching and guiding students of both the universities.
6. To share research results and publish jointly in collaborative projects.
7. Any IPR emerging from collaborative project will be the property of both the Universities in proportion to contribution of the investigators, as per Government of India rules.
8. In case of projects not supported formally by an extramural grant, but otherwise to by the two Universities, the parties shall meet their respective expenses which they might incur while carrying out their respective agreed obligation.
9. Neither of the parties shall claim the usage of facilities/software or other services as a matter of right. It would be subject to availability, but would not be ordinarily refused.
10. This MoU is non-binding, non-enforceable and nor financial ramification, but rather a way of mutual understanding for increasing both universities a mutual synergic benefits.

## **Implementation:**

Both the universities shall designate a liaison officer to develop and coordinate specific activities or programmes. The terms of such activity of mutual interest shall be discussed and agreed prior to the initiation of the activity. During operation, if any alteration / modification is required, the same may be mutually discussed and duly agreed upon in writing.


## **Timeline:**


This MoU will be effective from the date of its signing by both the parties shall remain in operation for a period of 5 (Five) years from the date of signing, until one of the parties serve notice to the other for its intention to terminate it. In such instances, the MoU will stand terminated 3 (three) months from the date of such notice. In case both the universities agree to terminate the MoU, the ongoing research projects will be completed as per already signed MoU and agree obligations.

## **Renewal of the MoU:**

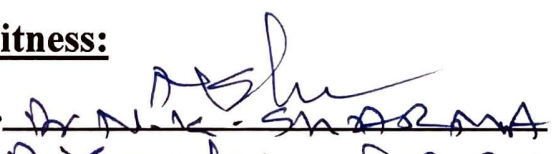
In case there is nothing to the contrary, this MoU shall continue to get renewed after mutual consent of both the parties, for the next term of 5 (five) years after the completion of one term.

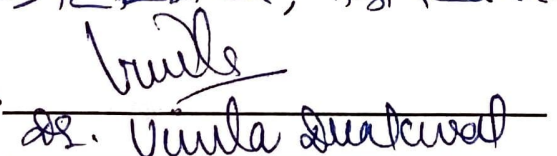
Signed in two originals, one to be retained by each of the signatories, on this day of **31<sup>th</sup> December, 2019** at **Bikaner, Rajasthan**.


  
31/12/19  
Prof. R. P. Singh  
Vice-Chancellor  
Swami Keshwanand Rajasthan  
Agricultural University, Bikaner

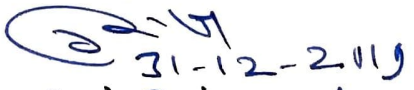
  
31/12/19  
Prof. Bhagirath Singh  
Vice-Chancellor  
Maharaja Ganga Singh University,  
Bikaner

## **Witness:**

1).   
Dr. Anil Sharma  
Director, IASB  
SKRAU, Bikaner

2).   
Dr. Vinla Sankar  
Dean, P.G.S.  
SKRAU, Bikaner

  
31.12.19  
1). Dr. J.S. KHICHAR  
Controller of Examinations.

  
31-12-2019  
2). Dr. Gouri Raj Harsh  
Asst. Registrar