# ट्रय संस्कृत संस्थान

भागत विश्वविद्यालय

(भाजव संसाधन विकास भवालय, भारत सरकार के तत्त्वाधान में संवालित) 86-87. इन्स्टीटबूशनल एरिया, जनकपुरी, नई दिल्ली-110058



#### RASHTRIYA SANSKRIT SANSTHAN DEEMED UNIVERSITY

(Established under the Auspices of the Ministry of Human Resource Development, Govt. of India)

56-57, Institutional Area, Janakpuri, New Delhi-110058

RSkS/36013/Ashtaadashi/02/2018-19/1855

To

The Registrar Karnataka Samskrit University Pampa Mahakavi Road, Chamarajpete, Bengaluru-560018 Dr. Kerting

Sub.:- Financial Assistance under "Ashtaadashi" (18 Projects) 2016-19 for sustaining the growth of Sanskrit recommended by the Committee to suggest vision and Road Map for the Development of Sanskrit - 10 Year Perspective Plan - reg..

Sir.

The Rashtriya Sanskrit Sansthan (Deemed University), set up by Government of India for propagation and promotion of Sanskrit language and Nodal Agency to the Government of India for implementing its related programmes and policies, invited applications for financial assistance under the Ashtaadashi (18 Projects) from the Universities/Education Institutions/Organizations vide notification No. RSkS/36013/Ashtaadashi/01/2018-19 dated 05.02.2018.

Further, the Competent Authority has constituted a High-level Committee to examine the proposals, received from various institutions & agencies. Based on the submitted proposal (s) and after an interface meeting with the concerned institutions/agencies, the Committee submitted its recommendations. The recommendations were considered and approved by the GIAC in its 26th meeting held on 05.12.2019 at Indian International Centre, New Delhi, under agenda item no. 26.14.

Now, therefore, I am directed to convey the tentative approval/sanction of the Competent Authority for Grant-in-Aid under Ashtaadashi Scheme (18 Projects) for conducting the project is as follows:-

Project Name:-	Grant-in-Aid:-
Reprint of Rare Books -"Bodhayaneeya Brahmakarma Samucchaya"	Rs.300000/-
(Principal Investigator- Dr. Ramakrishna Bhat K)	(three lakh only)

It is further informed that Guidelines of Scheme for Ashtaadashi - Eighteen Projects for sustaining the growth of Sanskrit, which approved by the GIAC in its meeting on 22.08.2017 and the list of projects recommended by the High-Level Scrutiny Committee under Ashtaadashi is available at Sansthan's website - http://www.sanskrit.nic.in/ashtaadashi.php You may kindly go through the recommendations/findings of the Committee and make necessary modifications/ rectifications/re-appropriation of budget etc., and submit in Form No. Ashtaadashi - I which is also a part of the Guidelines of Scheme, to Sansthan for final approval.

The 50% or 75% of the sanctioned Grants-in-Aid i.e. Rs.150000/- (one lakh fifty thousand only) will be released to you after the receipt of required documents. The balance amount will be released as per clause (Ashtaadashi guidelines) No. 13 & after completion of the 1st phase of the Project. Consequently, if the Principal Investigator of the Project is willing to do the project within the sanctioned budget then declaration for acceptance is to be submitted to Sansthan, in prescribed proforma (Form No. Ashtaadashi - II).

Contd./-

# केन्द्रीय संस्कृत विश्वविद्यालय

संसद के अधिनियम द्वारा रथापित (पूर्व मे गाँजूब सस्कृत सम्यान, मानित विश्वविद्यानम्) शिक्षा मन्त्रात्य, भागत सरकार दे. अधीन 55-57, सास्थानिक क्षेत्र, जनकपुरी, नई दिल्ली - 110058



# Central Sanskrit University

Established by an Act of Parliament

(Enements Resistings Constituted Developed to be University) Under Ministry of Education Govt of Ind tilulinnal Area Janaham, Hew Della - Houng

Dated:14.02.2023

F.No.CSU/Ashtaadashl-V/2021-22/24/ 09 53

To

The Registrar Karnataka Samskrit University, Bengaluru Pampa Mahakavi Road, Distt.- Nagpur, Maharashtra - 441 106.

Sub.:- Providing financial assistance under "Ashtaadashi (18 Projects)" for the year 2021-22.

In reference to the above cited subject matter, I am directed to convey the approval of Grant-Sir. in-Aid Committee and Competent Authority of the University for providing financial assistance of Rs.1,29,250/- (Rupees one lakh twenty nine thousand two hundred fifty only) under Ashtaadashi (18 Projects) in order to conduct/complete the following project:-

Projects) in order to comment	Sanctioned Grant-in-Aid
Project Name: Edition of (Tatvachintamani) Alokagadhadari-Shabdhakhanda of Gadadhar Bhattacharya (P.I- Dr. Bhaskar Bhatt Joshi)	Rs.258500/- (two lakh fifty eight thousand five hundred only)

In this context, it is to inform in terms of Ashtaadashi Guidelines that 50% of the sanctioned Grant-in-Aid i.e. Rs.1,29,250/- (Rupees one lakh twenty nine thousand two hundred fifty only) has already been electronically transferred to your account on 07.02.2023 (copy enclosed). The balance amount will be released (as per clause No. 13 of Ashtaadashi guidelines) on the recommendations of the Expert Committee, on submission of statement of expenditure to the extent of at least 80% of the grant released of the first instalment and utilization certificate of the sanctioned Project. Thereafter, the University shall consider to release of 2<sup>nd</sup> instalment i.e. 40% grant of the approved project. At last, final 10% of the grant of approved project will be released only after completion of the said Project, submission of accounts/expenditure & utilization certificate of the sanctioned amount and detailed report on project (in soft & hard copy) etc. in the prescribed proforma (Form No. Ashtaadashi -III to VII).

In addition, University has reserved the right to inspect the project at any time without prior intimation. Hence, Project Director should make available to the representative of the University regarding the project initiative details (Project starting, dates, Timing, place, venue, concerned person name & phone number etc.). The Grant-in-Ald must be utilized by strictly following Ashtaadashi Guidelines. The projects/activities conducted with the financial assistance of CSU under the scheme, must be acknowledged by appropriate displaying of name & logo of CSU and also as per revised estimate submitted by you.

Therefore, you are hereby requested to initiate further necessary steps to start the project works keeping in view of Ashtaadashi guidelines, which is also available in the University's website i.e. www.sanskrit.nic.in .

This is issued with the approval of the Competent Authority.

Yours faithfully,

(Dr. Chakradhar Meher) Ashtaadashi I/c

## केन्द्रीय संस्कृत विश्वविद्यालय

संस्थ" के अधिनियम द्वारा स्थापित (वृर्व ने राष्ट्रिय संस्कृत संस्थान, मानित विस्वविद्यालय) क्रिका मन्त्रालय, भारत सरकार के अधीन 56-57, सांस्थानिक क्षेत्र, जनकपुरी, नई दिल्ली - 110058



#### Central Sanskrit University

Established by an Act of Parliament

ormerly Rashtriya Sanskrit Sansthan, Deemed to be University)
Under Ministry of Education, Govt. of India
56-57, Institutional Area, Janakouri, New Delhi - 11005A

F.No.CSU/Ashtaadashi-II/2018-19/22/ 29

Dated:22.02.2022

To

The Registrar Karnataka Samskrit University Pampa Mahakavi Road, Chamarajpete, Bengaluru – 560 018 (Karnataka)

Sub.:- Providing financial assistance under "Ashtaadashi (18 Projects)" for the year 2018-19.

Sir,

In reference to the above cited subject matter, I am directed to convey the approval of Grant-in-Aid Committee and Competent Authority of the University for providing financial assistance of Rs.1,00,000/- (Rupees one lakh only) under Ashtaadashi (18 Projects) in order to conduct/complete the following project:-

	Sanctioned Grant-in-Aid
Project Name:- Editing & Publishing of the Manuscripts-"Tarkachudamani Sabda Khanda-A sub-Commentary of Tatvachintamani (Principal Investigator-Dr. K.E. Sri Venkata	Rs.200000/-

In this context, it is further informed that in terms of Ashtaadashi Guidelines, 50% of the sanctioned Grant-in-Aid i.e. Rs.1,00,000/- (Rupees one lakh only) has already been electronically transferred to your account. The balance amount will be released (as per clause No. 13 of Ashtaadashi guidelines) on the recommendations of the Expert Committee, on submission of statement of expenditure to the extent of at least 80% of the grant released of the first instalment and utilization certificate of the sanctioned Project. Thereafter, the University shall consider release of 2nd instalment of 40% of the approved project budget. At last, final 10% of the approved project budget will be released only after completion of the said Project, submission of accounts/expenditure & utilization certificate of the sanctioned amount and detailed report on project (in soft & hard copy) etc. in the prescribed proforma (Form No. Ashtaadashi -III to VII).

In addition, University has reserve the right to inspect the project at any time without prior intimation. Hence, Project Director should make available to University the project initiative details (Project starting, dates, Timing, place, venue, concerned person name & phone number etc.). The Grant-in-Aid must be utilized by strictly followed Ashtaadashi Guidelines. The projects/activities conducted with financial assistance of the CSU under the scheme must be acknowledged by appropriate displaying of name & logo of CSU and also as per revised estimate submitted by you.

Therefore, you are hereby requested to initiate further necessary steps to start the project works keeping in view set up norms of Ashtaadashi guidelines, which is also available in the University's website i.e. <a href="https://www.sanskrit.nic.in">www.sanskrit.nic.in</a>.

This issues with the approval of the Competent Authority.

Yours faithfully,

(Prof. R.G. Murali Krishna) Ashtaadashi I/c

38.820 A 1000 12022

02/3/22

GENERAL ENQUIRY: 011-28520977, 28521994, 28524993, 28524995, 28525963

VC: 28523949, REGISTRAR: 28520979, ACD: 28521948, ADMIN: 28524532, EXAM: 28521258, N.F.S.E.: 28524387, MSP: 28523611, SCHEMES: 28520966, EMAIL: centralsanskrituniversity@gmail.com, WEBSITE: www.sanskrit.nic.in

# कन्द्रीय संस्कृत विश्वविद्यालय

संसद के अधिनियम द्वारा स्थापित (को में राष्ट्रिय संस्कृत संस्थान, मार्जित विश्वविक 56-57, मास्कानिक क्षेत्र, जनकपुरी, नई दिस्सी - 110058



#### Central Sanskrit University

Established by an Act of Parliament

(Formerly Rashtriya Sanskrit Sansthan, Deemed to be University) 56-57, Institutional Area, Janakpun, New Debi - 110056

F.No.CSU/Ashtaadashi-II/2018-19/22/29

Dated:22.02.2022

To

The Registrar Karnataka Samskrit University Pampa Mahakavi Road, Chamarajpete, Bengaluru - 560 018 (Karnataka)

Sub.:- Providing financial assistance under "Ashtaadashi (18 Projects)" for the year 2018-19.

In reference to the above cited subject matter, I am directed to convey the approval of Grant-in-Aid Committee and Competent Authority of the University for providing financial assistance of Rs.1.00,000/- (Rupees one lakh only) under Ashtaadashi (18 Projects) in order to conduct/complete the following project:-

De la Contra de	Sanctioned Grant-in-Aid
Project Name:  Editing & Publishing of the Manuscripts-Tarkachudamani Sabda Khanda-A sub-Commentary of Tatvachintamani (Principal Investigator-Dr. K.E. Sri Venkata	Rs.200000/-
Nathan)	1

In this context, it is further informed that in terms of Ashtaadashi Guidelines, 50% of the sanctioned Grant-in-Aid i.e. Rs.1,00,000/- (Rupees one lakh only) has already been electronically transferred to your account. The balance amount will be released (as per clause No. 13 of Ashtaadashi guidelines) on the recommendations of the Expert Committee, on submission of statement of expenditure to the extent of at least 80% of the grant released of the first instalment and utilization certificate of the sanctioned Project. Thereafter, the University shall consider release of 2nd instalment of 40% of the approved project budget. At last, final 10% of the approved project budget will be released only after completion of the said Project, submission of accounts/expenditure & utilization certificate of the sanctioned amount and detailed report on project (in soft & hard copy) etc. in the prescribed proforma (Form No. Ashtaadashi -III to VII).

In addition, University has reserve the right to inspect the project at any time without prior intimation. Hence, Project Director should make available to University the project initiative details (Project starting, dates, Timing, place, venue, concerned person name & phone number etc.). The Grant-in-Aid must be utilized by strictly followed Ashtaadashi Guidelines. The projects/activities conducted with financial assistance of the CSU under the scheme must be acknowledged by appropriate displaying of name & logo of CSU and also as per revised estimate submitted by you.

Therefore, you are hereby requested to initiate further necessary steps to start the project works keeping in view set up norms of Ashtaadashi guidelines, which is also available in the University's website i.e. www.sanskrit.nic.in .

This issues with the approval of the Competent Authority.

Yours faithfully,

(Prof. R.G. Murali Krishna) Ashtaadashi I/c

20.820 A Calor 12.22

GENERAL ENQUIRY: 011-28520977, 28521994, 28524993, 28524995, 28525963

VC. 28523949, REGISTRAR: 28520979, ACD::28521948, ADMIN::28524532, EXAM::28521258, N.F.S.E.::28524387, MSP - 28523611, SCHEMES::28520966, EMAIL::centralsanskrituniversity@gmail.com, WEBSITE::www.sanskrit.nic.in

# ट्रय संस्कृत संस्थान

भागत विश्वविद्यालय

(भाजव संसाधन विकास भवालय, भारत सरकार के तत्त्वाधान में संवालित) 86-87. इन्स्टीटबूशनल एरिया, जनकपुरी, नई दिल्ली-110058



#### RASHTRIYA SANSKRIT SANSTHAN DEEMED UNIVERSITY

(Established under the Auspices of the Ministry of Human Resource Development, Govt. of India)

56-57, Institutional Area, Janakpuri, New Delhi-110058

RSkS/36013/Ashtaadashi/02/2018-19/1855

To

The Registrar Karnataka Samskrit University Pampa Mahakavi Road, Chamarajpete, Bengaluru-560018 Dr. Kerting

Sub.:- Financial Assistance under "Ashtaadashi" (18 Projects) 2016-19 for sustaining the growth of Sanskrit recommended by the Committee to suggest vision and Road Map for the Development of Sanskrit - 10 Year Perspective Plan - reg..

Sir.

The Rashtriya Sanskrit Sansthan (Deemed University), set up by Government of India for propagation and promotion of Sanskrit language and Nodal Agency to the Government of India for implementing its related programmes and policies, invited applications for financial assistance under the Ashtaadashi (18 Projects) from the Universities/Education Institutions/Organizations vide notification No. RSkS/36013/Ashtaadashi/01/2018-19 dated 05.02.2018.

Further, the Competent Authority has constituted a High-level Committee to examine the proposals, received from various institutions & agencies. Based on the submitted proposal (s) and after an interface meeting with the concerned institutions/agencies, the Committee submitted its recommendations. The recommendations were considered and approved by the GIAC in its 26th meeting held on 05.12.2019 at Indian International Centre, New Delhi, under agenda item no. 26.14.

Now, therefore, I am directed to convey the tentative approval/sanction of the Competent Authority for Grant-in-Aid under Ashtaadashi Scheme (18 Projects) for conducting the project is as follows:-

Project Name:-	Grant-in-Aid:-
Reprint of Rare Books -"Bodhayaneeya Brahmakarma Samucchaya"	Rs.300000/-
(Principal Investigator- Dr. Ramakrishna Bhat K)	(three lakh only)

It is further informed that Guidelines of Scheme for Ashtaadashi - Eighteen Projects for sustaining the growth of Sanskrit, which approved by the GIAC in its meeting on 22.08.2017 and the list of projects recommended by the High-Level Scrutiny Committee under Ashtaadashi is available at Sansthan's website - http://www.sanskrit.nic.in/ashtaadashi.php You may kindly go through the recommendations/findings of the Committee and make necessary modifications/ rectifications/re-appropriation of budget etc., and submit in Form No. Ashtaadashi - I which is also a part of the Guidelines of Scheme, to Sansthan for final approval.

The 50% or 75% of the sanctioned Grants-in-Aid i.e. Rs.150000/- (one lakh fifty thousand only) will be released to you after the receipt of required documents. The balance amount will be released as per clause (Ashtaadashi guidelines) No. 13 & after completion of the 1st phase of the Project. Consequently, if the Principal Investigator of the Project is willing to do the project within the sanctioned budget then declaration for acceptance is to be submitted to Sansthan, in prescribed proforma (Form No. Ashtaadashi - II).

Contd./-

# केन्द्रीय संस्कृत विश्वविद्यालय

संसद के अधिनियम द्वारा रथापित (पूर्व मे गाँजूब सस्कृत सम्यान, मानित विश्वविद्यानम्) शिक्षा मन्त्रात्य, भागत सरकार दे. अधीन 55-57, सास्थानिक क्षेत्र, जनकपुरी, नई दिल्ली - 110058



# Central Sanskrit University

Established by an Act of Parliament

(Enements Resistings Constituted Developed to be University) Under Ministry of Education Govt of Ind tilulinnal Area Janaham, Hew Della - Houng

Dated:14.02.2023

F.No.CSU/Ashtaadashl-V/2021-22/24/ 09 53

To

The Registrar Karnataka Samskrit University, Bengaluru Pampa Mahakavi Road, Distt.- Nagpur, Maharashtra - 441 106.

Sub.:- Providing financial assistance under "Ashtaadashi (18 Projects)" for the year 2021-22.

In reference to the above cited subject matter, I am directed to convey the approval of Grant-Sir. in-Aid Committee and Competent Authority of the University for providing financial assistance of Rs.1,29,250/- (Rupees one lakh twenty nine thousand two hundred fifty only) under Ashtaadashi (18 Projects) in order to conduct/complete the following project:-

Projects) in order to comment	Sanctioned Grant-in-Aid
Project Name: Edition of (Tatvachintamani) Alokagadhadari-Shabdhakhanda of Gadadhar Bhattacharya (P.I- Dr. Bhaskar Bhatt Joshi)	Rs.258500/- (two lakh fifty eight thousand five hundred only)

In this context, it is to inform in terms of Ashtaadashi Guidelines that 50% of the sanctioned Grant-in-Aid i.e. Rs.1,29,250/- (Rupees one lakh twenty nine thousand two hundred fifty only) has already been electronically transferred to your account on 07.02.2023 (copy enclosed). The balance amount will be released (as per clause No. 13 of Ashtaadashi guidelines) on the recommendations of the Expert Committee, on submission of statement of expenditure to the extent of at least 80% of the grant released of the first instalment and utilization certificate of the sanctioned Project. Thereafter, the University shall consider to release of 2<sup>nd</sup> instalment i.e. 40% grant of the approved project. At last, final 10% of the grant of approved project will be released only after completion of the said Project, submission of accounts/expenditure & utilization certificate of the sanctioned amount and detailed report on project (in soft & hard copy) etc. in the prescribed proforma (Form No. Ashtaadashi -III to VII).

In addition, University has reserved the right to inspect the project at any time without prior intimation. Hence, Project Director should make available to the representative of the University regarding the project initiative details (Project starting, dates, Timing, place, venue, concerned person name & phone number etc.). The Grant-in-Ald must be utilized by strictly following Ashtaadashi Guidelines. The projects/activities conducted with the financial assistance of CSU under the scheme, must be acknowledged by appropriate displaying of name & logo of CSU and also as per revised estimate submitted by you.

Therefore, you are hereby requested to initiate further necessary steps to start the project works keeping in view of Ashtaadashi guidelines, which is also available in the University's website i.e. www.sanskrit.nic.in .

This is issued with the approval of the Competent Authority.

Yours faithfully,

(Dr. Chakradhar Meher) Ashtaadashi I/c



#### REQUEST LETTER

Date: 10/12/2022

Letter no: SGS/001/2022-2023/BOC-A0001/49

From,
The Director,
School of Science,
JAIN (Deemed to be University)
J.C. Road, Bangalore-27

To Prof. Shivani, Dean, Shastra Faculty, Head, Dept. of Vyakarana, Karnataka Sanskrit University, Bangalore

Sub: Request for permission to undergo an internship for 30 days at your esteemed institution.

Dear Madam,

JAIN (Deemed to be University) was awarded the Deemed-to-be University status under Sec 3 UGC Act by the Ministry of HRD on 24<sup>th</sup> July 2009. Though we have always been a forward-looking organization, this recognition not only adds impetus to our purpose but also makes us strive harder for the larger cause of quality education.

At JAIN, we believe that no education is complete without a practical understanding and it is imperative to bridge the gap between theory and practical by getting hands-on experience. These kinds of endeavors go a long way in not just helping the students understand the complexities of the application of knowledge but also inducting them into the professional world. This ultimately also helps in the holistic development of the personality of the youngster.

In this regard, it is my request to you to consider K Sai Akshay, 20BSR18055, BSc. Data Science and Analytics of 2020-2023 batch (Pursuing), who is a *bonafide* student of our institution to undergo internship in your organization for a period of 30 days.

I assure you that our students will follow all the codes and conduct of your organization and prove themselves to be their best during the course of their internship.

On behalf of the University, I extend my gratitude for your support and encouragement. Awaiting your response,

Thanking You.



Dr. Asha Rajiv
Director
Director
School of Sciences-B-II
JAIN (Deemed to be University)
JAIN, Road, Bangalore-560027



#### REQUEST LETTER

Date: 09/12/2022

Letter no: SGS/001/2022-2023/BOC-A0001/49

From,
Dr. S.THIRUKUMARAN / Associate Professor,
Department of Data Science and Analytics,
School of Science,
JAIN (Deemed to be University)
J.C. Road, Bangalore-27

To
The Director,
School of Science,
JAIN (Deemed to be University)
J.C. Road, Bangalore-27

Sub: Request for permission to undergo an internship for 30 days at your esteemed institution.

Respected Madam,

JAIN (Deemed to be University) was awarded the Deemed-to-be University status under Sec 3 UGC Act by the Ministry of HRD on 24<sup>th</sup> July 2009. Though we have always been a forward-looking organization, this recognition not only adds impetus to our purpose but also makes us strive harder for the larger cause of quality education.

At JAIN, we believe that no education is complete without a practical understanding and it is imperative to bridge the gap between theory and practical by getting hands-on experience. These kinds of endeavors go a long way in not just helping the students understand the complexities of the application of knowledge but also inducting them into the professional world. This ultimately also helps in the holistic development of the personality of the youngster.

In this regard, it is my request to you to consider K Sai Akshay, 20BSR18055, BSc. Data Science and Analytics of 2020-2023 batch (Pursuing), who is a bonafide student of our institution to undergo internship in your organization for a period of 30 days.

I assure you that our students will follow all the codes and conduct of your organization and prove themselves to be their best during the course of their internship.

J.C. Road Bangalore-27

On behalf of the University, I extend my gratitude for your support and encouragement.

Awaiting your response,

Thanking You. (

Dr. S.THIRUKUMARAN,

Associate Professor,

Department of Data Science and Analytics,

School of Science, JAIN (Deemed to be University)

s.thirukumaran@jainuniversity.ac.in

Dr. Asha Rajiv

Schsehofferschafts!

Corporate Office:

# 91/2, Dr. A N Krishna Rao Road V V Puram, Bangalore - 560 004 **P** +91-80-4343 1000 Jain Global Campus

45<sup>th</sup> km, NH - 209, Jakkasandra Post Kanakapura Taluk, Ramanagara District - 562 112 **P** +91-80-2757 7250 - 258



#### LETTER OF RECOMMENDATION

I am delighted to recommend Mr. K SAI AKSHAY for the Internship at your University, I've known K SAI AKSHAY since he was a second-year student at the JAIN (Deemed-to-be-University) in Bangalore, India, where she was studying machine learning and natural language processing. His laboratory work for these subjects has also been under my supervision. I 've interacted both personally and academically with K SAI AKSHAY during this period.

I have seen how diligently and consistently he has worked, gradually increasing his subject knowledge and practical skills with each succeeding semester. There was extensive attention to detail, precision, and flexible learning observed in him. He could grasp the complexities of Python coding with ease. His good command of the language, his interpersonal skill, and his active participation all the events have been commendable.

Doing well academically and he is involved in other sectors too. He has successfully been part of the Sanskrit club of the college and representing as the Executive head of the club. He is open to learning from peers and faculty members and accepting alternate views. In him, I find the commitment desirous of a good student, meticulous with the right blend of aptitude, merit, and determination.

I have every faith and confidence in his abilities, and I am sure that he will make an excellent graduate student with him self-belief and hard work. I believe that he has the required knowledge and skill set to excel in this Internship. Hence, I highly recommend him for your internship program.

Sincerely,

DB BA IANII IAIBAM

aus Jaikan 12.2022 Hoad

DR. RAJANI JAIRAM

Department of Languages

JAIN (Deemed to be University)

Bangaiore

(Ph D in Sanskrit)

Professor in Sanskrit

Head, Department of Languages

Dean (Student Welfare)

JAIN (Deemed-to-be-University)

# द्रीय संस्कृत विश्वविद्यालय

संसद के अधिनियम द्वारा स्थापित (पूर्व में राष्ट्रिय संस्कृत संस्थान, मानित विश्वविद्यालय) शिक्षा मन्त्रालय, भारत सरकार वे अधीन 56-57. सारधानिक क्षेत्र, जनकपूर्ग, नई दिल्ली 110058



# Central Sanskrit University

Established by an Act of Parliament

(Formerly Rashtnya Sanskrit Sansthan, Deemed to be University) Under Ministry of Education, Govf, of India 56-57, Institutional Area, Janakpurt, New Delta, 110058

Dated: 14.02.2023

F.No.CSU/Ashtaadashl-V/2021-22/23/25 2

To

The Registrar Karnataka Samskrit University, Bengaluru Pampa Mahakavi Road, Distt.- Nagpur, Maharashtra - 441 106.

Sub.:- Providing financial assistance under "Ashtaadashi (18 Projects)" for the year 2021-22.

Sir,

In reference to the above cited subject matter, I am directed to convey the approval of Grantin-Aid Committee and Competent Authority of the University for providing financial assistance of Rs.7,50,000/- (Rupees seven lakh fifty thousand only) under Ashtaadashi (18 Projects) in order to conduct/complete the following project:-

Project Name:	Sanctioned Grant-in-Aid
Shabdashala Project - Mahakosha (The Knowledge Net of all Ancient Sanskrit Koshas) (P.I Prof. Shivani V)	Rs.1500000/- (fifteen lakh only)

In this context, it is to inform in terms of Ashtaadashi Guidelines that 50% of the sanctioned Grant-in-Aid i.e. Rs.7,50,000/- (Rupees seven lakh fifty thousand only) has already been electronically transferred to your account on 07.02.2023 (copy enclosed). The balance amount will be released (as per clause No. 13 of Ashtaadashi guidelines) on the recommendations of the Expert Committee, on submission of statement of expenditure to the extent of at least 80% of the grant released of the first instalment and utilization certificate of the sanctioned Project. Thereafter, the University shall consider to release of 2<sup>nd</sup> instalment i.e. 40% grant of the approved project. At last, final 10% of the grant of approved project will be released only after completion of the said Project, submission of accounts/expenditure & utilization certificate of the sanctioned amount and detailed report on project (in soft & hard copy) etc. in the prescribed proforma (Form No. Ashtaadashi -III to VII).

In addition, University has reserved the right to inspect the project at any time without prior intimation. Hence, Project Director should make available to the representative of the University regarding the project initiative details (Project starting, dates, Timing, place, venue, concerned person name & phone number etc.). The Grant-in-Aid must be utilized by strictly following Ashtaadashi Guidelines. The projects/activities conducted with the financial assistance of CSU under the scheme, must be acknowledged by appropriate displaying of name & logo of CSU and also as per revised estimate submitted by you.

Therefore, you are hereby requested to initiate further necessary steps to start the project works keeping in view of Ashtaadashi guidelines, which is also available in the University's website i.e. www.sanskrit.nic.in .

This is issued with the approval of the Competent Authority.

Yours faithfully,

(Dr. Chakradhar Meher) Ashtaadashi I/c भारत सरकार

Government of India इह्रोक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय

Ministry of Electronics & Information Technology इलेक्ट्रॉनिक्स निकेतन, ६, सी जी ओ कॉम्प्लेक्स, नई दिल्ली-110003

Electronics Niketan, 6, C G O Complex, New Delhi-110003

Website: www.meity.gov.in

संख्या

दिनांक

No.11(1)/2022-HCC(TD1L)-Part(7)

Date 25.03.2022

#### ADMINISTRATIVE APPROVAL

Subject: Administrative Approval for implementation of the Sub Project 'An Interpretable Unified Framework for Text-to-Text Translation among Indian Languages using Sanskrit-based Interlingua Representation' under the Project titled 'National Language Translation Mission (NLTM): BHASHINI'.

Implementing Agency:

IIT, Kharagpur – Consortium Leader and IIT Bombay, IIT Kanpur, IISc Bangalore, Karnataka Samskrit University,

C-DAC Bangalore as Consrotium Members.

The undersigned is directed to refer to this Ministry's letter of No.11(14)/2018-HCC(TDIL) dated 13.10.2021 conveying the Administrative Approval for the implementation of the Project titled 'National Language Translation Mission (NLTM): BHASHINI' by Digital India Corporation (DIC), C-DAC, R&D Institutions for research through call for proposals and Other Implementing Agencies (To be identified) with the total outlay of the project of Rs. 495.51 Crore (Rupees four hundred ninety-five crore fifty one lakh only) as Grants-in-aid from Ministry of Electronics and Information Technology (MeitY). The duration of the projects is 36 months. The start of the Mission will be the date of the first release of Grant-in-aid. However, disbursement may go beyond the duration of the Mission.

- 2. Now, the undersigned is directed to convey the Administrative Approval for the implementation of the sub-project namely 'An Interpretable Unified Framework for Text-to-Text Translation among Indian Languages using Sanskrit-based Interlingua Representation' under the Project titled 'National Language Translation Mission (NLTM): BHASHINI' to be implemented by IIT, Kharagpur Consortium Leader and IIT Bombay, IIT Kanpur, IISc Bangalore, Karnataka Samskrit University, C-DAC Bangalore as Consrotium Members at the total outlay of the project is Rs. 3,43,76,700/- (Rupees three crore forty-three lakh seventy-six thousand seven hundred only) as Grants-in-aid from Ministry of Electronics and Information Technology (MeitY) for a period of 03 years. The details of the project are at Annexure– I.
- 3. The standard terms and conditions governing the Grants-in-aid are enclosed at Annexure II.

This issues with the approval of Secretary, MeitY vide computer no. 3083439 dated 23.03.2022 and concurrence of Integrated Finance Division, MeitY vide computer no. 3083439 dated 04.02.2022.

(Sandeep Kumar Ambasta)
Deputy Director

#### Copy to:

- 1. Pay & Accounts Officer, Pay & Accounts Office. MeitY.
- Office of Principal Director of Audit, Scientific Department, Shamnath Marg, Civil Lines, Delhi – 110 054.
- Finance Division. MeitY.
- 4. DDO, MeitY (two copies).
- 5. Chief Investigator, Co-Investigators and Head of Implementing Agencies of the Projects.
- 6. Economic Advisor, MeitY.
- 7. Shri Vijay Kumar, Scientist 'F', MeitY.
- 8. Shri Rajeshwar Singh Janwar, Scientist 'E', MeitY.
- 9. Shri Bharat Gupta, Scientist 'D', MeitY and Sanction File.

(Sandeep Kumar Ambasta) Deputy Director \[
 \left(\text{Annexure} - 1\) to the Administrative Approval No. 11(1)/2022-HCC(TDIL)-Part(7) dated 25.03.2022.
 \]

1.	Title of Project:	An Interpretable Unified Framework for Text-to-Text Translation among Indian Languages using Sanskrit-based Interlingua Representation				
2.	Implementation Agencies:	IIT, Kharagpur – Consortium Leader and IIT Bombay, IIT Kanpur, IISc Bangalore, Karnataka Samskrit University, C-DAC Bangalore as Consrotium Members.				
3.	Chief Investigator:	Pawan Goyal, Associate Professor, IIT Kharagpur				
4.	Co-Investigator:	PIs from other institutes:				
		Ganesh Ramakrishnan (IIT Bombay), Arnab Bhattacharya (IIT Kanpur), Prathosh A.P (IISc Bangalore), Shivani V (Karnataka Sanskrit University), Annarao Kulkarni (CDAC, Bangalore)				
		Co-investigator:				
	t respect or some or president in a	Sudeshna Sarkar (IIT Kharagpur)				
5.	Background/Nature of Project: Research and Development					
	system for the translation of text proposes to use an interlingual fr of Sanskrit. The project will focus subset of Indian languages such t	linguistically faithful and interpretable translation among multiple Indian languages. The project amework rooted in the traditional grammatical system on Hindi, Sanskrit and Kannada as a representative that any observations and research innovations languages would benefit other languages.				
6.	Broad Objectives of the Project:					
	Towards the primary objective of following sub-objectives:	text-to-text translation, the project will have the				
		igua interpreter that can capture linguistic onsidered under the framework and facilitate es				
	b) Develop a text-to-text (T2T) translation module for translation among text in different languages and the interlingua structure					

c) Human benchmarking of explainability and linguistic correctness of interlingua as a post-hoc explainer Deliverables/Expected outcome in physical terms (as applicable): 7. T2T translation systems (Language pairs corresponding to Sanskrit, Hindi, Kannada): The interlingua-based translation models for improved interpretability and faithfulness: API and Web-interface. The models are expected to be more accurate than the available open-source models at ULCA platform, or the Indic-trans platform. Linguistically rich annotated data for the 3 languages: 40k sentences per language, which will be annotated as per the interlingua annotation scheme with the help of the available morphology tools. The data will be released under CC-BY 4.0 license and can be used for any purpose by all on ULCA. 3 Years **Duration of Project:** 8. 9. Milestones: Months 1-6 Collecting raw and parallel data Months 7-12 Design of annotation schema for the interlingua with a usable API Morpho-syntactic annotation as per interlingua schema with the help of morphological tools: 2k sentences per language Months 13-18 Morpho-syntactic annotation as per interlingua schema with the help of morphological tools: 13k sentences per language Deep Learning components for all the subsystems across all language verticals Months 19-24 Morpho-syntactic annotation as per interlingua schema with the help of morphological tools: 25k sentences per language Interlingua Interpreter: Automated feature generation and feature selection Interlingua Interpreter: Scoring mechanism for feature subspaces from the feature selection framework Automated extension of universal interlingua representation to target language-specific representation

#### Months 25-30

Building the interlingua-based translation model using the subsystems for improved interpretability and faithfulness: API and Web-interface

Benchmarking the interlingua guided text to text translation systems across baseline systems available on ULCA; profiling its various components

#### Months 31-36

Human benchmarking of explainability / linguistic correctness of interlingua as a post-hoc explainer

Finalizing and open-sourcing the modules and datasets

Dissemination

10.	Agency with which link up is established/proposed:	Language Curry www.languagecurry.com (Expression of Intent Letter)
	6	Reverie Language Technologies Ltd.: https://reverieinc.com/ (Expression of Intent Letter)
11.	Likely End User(s):	Useful as an API based service for startups, as a web service for end users, as a pedagogical system for language learning. Expression of interest from Language curry and Reverie Inc
		The findings of the project will also be usable more widely by the research community.

12. Total Budget outlay (year wise): Rs. 3,43,76,700/- (Rupees three crore forty-three lakh seventy-six thousand seven hundred only)

Rs.In Lakhs SI. Head Year 1 Year 2 Year 3 Total No. Equipment 1 6.3 6.3 2 Manpower 95.64 95.64 95.64 286.92 Consumable 3 1.5 1.5 1.5 4.5 Travel 4 1.6 2.5 2.5 6.6 Contingency 2.1 5.75 9.95 2.1 Others (Misc.) 1.5 1.5 4.5 1.5 Sub-Total (2 to 5) 6 102.34 106.89 312.47 103.24 Overheads (at 8% of 7 8.259 8.187 8.551 24.997 6) 8 Grand Total (1+6+7) 116.827 111.499 115.441 343.767

#### Institute Wise Budget Outlay:

#### IIT, Kharagpur

SI. No.	Head	Year 1	Year 2	Year 3	Total Rs.In Lak
1	Equipment	0.65	0	0	0.65
2	Manpower	20.04	20.04	20.04	60.12
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.35	0.5	0.5	1.35
5	Contingency	0.35	0.35	4	4.7
	Others (Misc.)	0.25	0.25	0.25	0.75
5	Sub-Total (2 to 5)	21.24	21.39	25.04	67.67
7	Overheads (at 8% of 6)	1.699	1.711	2.003	5.413
3	Grand Total (1+6+7)	23.589	23.101	27.043	73.733

## IIT, Bombay

SI. No.	Head	Year 1	Year 2	Year 3	Rs.In Lakhs
1	Equipment	0.65	0	0	
2	Manpower	15.84	15.84	15.84	0.65
3	Consumable	0.25	0.25		47.52
4	Travel	0.25	e distance	0.25	0.75
5	Contingency		0.4	0.4	1.05
		0.35	0.35	0.35	1.05
•	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	
7	Overheads (at 8% of 6)	1.3552	1.3672		51.12
8	Grand Total (1+6+7)	18.9452		1.3672	4.0896
		10.9452	18.4572	18.4572	55.8596

#### IIT, Kanpur

Rs.In Lakhs

SI. No.	Head	Year 1	Year 2	Year 3	Total
1	Equipment	0.65	0	0	0.65
2	Manpower	15.84	15.84	15.84	47.52
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	51.12
7	Overheads (at 8% of 6)	1.3552	1.3672	1.3672	4.0896
8	Grand Total (1+6+7)	18.9452	18.4572	18.4572	55.8596

#### IISc, Bangalore

SI. No.	Head	Year 1	Year 2	Year 3	Rs.In Lakh Total
1	Equipment	0.65	0	0	0.65
2	Manpower	15.84	15.84	15.84	47.52
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	51.12
7	Overheads (at 8% of 6)	1.3552	1.3672	1.3672	4.0896
8	Grand Total (1+6+7)	18.9452	18.4572	18.4572	55.8596

## KSU, Bangalore

Rs.In Lakhs

SI. No.	Head	Year 1	Year 2	Year 3	Total
1	Equipment	2.5	0	0	2.5
2	Manpower	15.84	15.84	15.84	47.52
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	51.12
7	Overheads (at 8% of 6)	1.3552	1.3672	1.3672	4.0896
8	Grand Total (1+6+7)	20.7952	18.4572	18.4572	57.7096



## C-DAC, Bangalore

Rs.In Lakhs

SI. No.	Head	Year 1	Year 2	Year 3	Total
1	Equipment	1.2	0	0 .	1.2
2	Manpower	12.24	12.24	12.24	36.72
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	13.34	13.49	13.49	40.32
7	Overheads (at 8% of 6)	1.0672	1.0792	1.0792	3.2256
8	Grand Total (1+6+7)	15.6072	14.5692	14.5692	44.7456

#### Special terms and conditions:

- At the end of one year, models should be more accurate than available open-source models on the ULCA platform which is a mandatory Condition for project continuation else the projects can be shortly closed.
- In the case of research proposals, if performance criteria are met at the end of one year, PI may request additional funding for more corpus creation in the form of a new proposal which can be considered depending on the availability of funds.
- ULCA API based Data and Models should be made available in open source by
  maintaining the GitHub Repository by the concerned
  Researcher/Consortia/Ekstep/other contributor and then be ported from
  GitHub onto the Bhashini platform by the DevOps team of DIC. Source code
  should be released under an open-source license, and it should be
  downloadable, compiled, installed along with necessary data by anyone
  without any registration/permissions. The data to be released under CC-BY 4.0
  license with attribution to NLTM, shall be used for any purpose by all.
- The corpus funded to R&D under the Mission should be newly created and of Gold Standard and independent of the data to be developed under DMU. The process and methods to be developed to avoid duplication of data. The PI is responsible to collect all data required to meet their promised performance. However, PI may leverage the data developed by DMU, if applicable. The data source should be declared prior to the collection for avoiding data duplication among various stakeholders under the Mission. And, the corpus funded under the Mission is to be utilised for the generation of unique corpus only. The process to ensure this should be automatic through the platform. The three expert committees mentioned in the Mission Document will lay guidelines to ensure coordinated data development under the mission. The committees will be set up by MeitY and will function in close coordination with NHLT. These committees will also work on the development of more benchmarks in discussion with Consortia e.g. domain-specific etc.

# 14. Project Review & Monitoring: EC Committee will continue to work as PRSG

#### 15. Benefits:

Deep learning systems have been quite successful recently in speech/text translations among the languages of west Europe. They, however, require a large amount of parallel data for every pair of source and target languages posing a serious drawback for application in Indian languages. This project, thus, aims to address this by incorporating an interlingua framework based on grammatical tradition of Sanskrit in order to reduce the data requirement and also to get interpretability and faithfulness to produce a hybrid pipelined translation system for 3 Indian languages,

harnessing the representational power of deep learning and insights from Sanskrit grammar.

16. Stages for Release of Payment:

Pre-condition status of implementation: Issue of Administrative Approval and as per quantitative roadmap

Documentation to be supplied by Implementation Agency: Acceptance to the terms and conditions of GIA, special terms and conditions for the Mission project, Progress Report, UC

Amount to be Released: As per the recommendation of PRSG for release followed by the availability of fund and as proposed by Programme Division

harnessing the representational power of deep learning and insights from Sanskrit grammar.

16. Stages for Release of Payment:

Pre-condition status of implementation: Issue of Administrative Approval and as per quantitative roadmap

Documentation to be supplied by Implementation Agency: Acceptance to the terms and conditions of GIA, special terms and conditions for the Mission project, Progress Report, UC

Amount to be Released: As per the recommendation of PRSG for release followed by the availability of fund and as proposed by Programme Division



# THIS AGREEMENT HAS BEEN ENTERED INTO BY:

Siddhanta Knowledge Foundation, a Section 8 Company registered under the Companies Act 1956, having its office at 72, Marshalls Road, Egmore, Chennai – 600008, India, represented by its Director, Mr.G Vishnu Vardhan, hereinafter referred to as "PROJECT OWNER".

#### WITH

The Department of VyAkarana, Karnataka Samskrit University, Pampa Mahakavi Road, Chamarajpet, Bengaluru – 560018, represented by its Head of the Department, Professor Ms.Shivani V, hereinafter referred to as "EXECUTION PARTNER".

Dr. SHIVANI.V

Dr. SHIVANI.V

Professor and Head

Professor and He

For SIDDHANTA KNOWLEDGE FOUNDATION

GO. MS.

Director

#### The following has been agreed by the parties:

#### A) Purpose of Agreement

The purpose of this Agreement is to establish the terms and conditions for the implementation of the project to produce a detailed 'ShAstra-mapping' of the Yogasutram and the MahAbhashyam texts, thereby enabling development of easy, effective and logical learning resources for these texts. This Agreement specifies the implementation framework for the project including timeline, responsibilities of the parties, allocation and disbursement of funds and other operational aspects of the project.

#### B) Project timeline & extension of duration

The duration of this project will be for a period of 12 months from the date of signing of this Agreement. Any extension of the duration of the project and the terms and conditions thereof, will be based on mutual discussion and consent.

#### C) Responsibilities of the parties to this Agreement

The EXECUTION PARTNER shall select and appoint Research Scholars to enable mapping of the aforementioned texts and design a suitable schedule and process mechanism to achieve the desired objectives / output(s) as agreed upon with the PROJECT OWNER.

The PROJECT OWNER shall arrange for training of the Research Scholars appointed by the EXECUTION PARTNER in the specific methodology required to enable the *ShAstra*-mapping of selected parts of the aforementioned texts. The PROJECT OWNER agrees to allocate required funds and resources for implementation of the project as agreed with the EXECUTION PARTNER, as specified in Clauses D and E. Also, the PROJECT OWNER shall coordinate with the EXECUTION PARTNER to ensure timely completion of the project and achievement of the stated objectives.

#### D) Budget for the project : funds allocation and disbursement

The total amount of INR 4,80,000 (Rupees Four Lakhs Eighty thousand only) is inclusive of all expenses and costs specified in this Agreement, other than the amount mentioned in clause E, as budgeted and allocated by the PROJECT OWNER, till the completion of the said project, for the period of 12 months as mentioned in Clause B. Disbursement of amount to the EXECUTION PARTNER towards this project will be made by the PROJECT OWNER on a quarterly basis in advance on the 7<sup>th</sup> of the quarter beginning. If the 7<sup>th</sup> is a holiday, disbursement will be made on the next available working day. Disbursement of payment for the first quarter will be made within 7 working days from the date of signing of this Agreement.

Dr. SHIVANI.V

Professor and Head

Professor and Head

Dept of Vvakarana Shastra Faculty

Karnataka Samskrit University,

Karnataka LURU - 560 004.

FOR SIDDHANTA KNOWLEDGE FOUNDATION

Director

K.S. SHANMUGAM

CITY OF CHENNAI

Ge. Ms.

No. 791/2518

#### E) Resources for the Project

The PROJECT OWNER shall make the following resources available to the EXECUTION PARTNER for the said project purposes.

- Laptop 2 nos
- Rs.10,000/- for purchase of books etc as may be required and mutually agreed.
- Reimbursement of Project related expenses, such as consultancy fee & related travel expenses for Reputed Scholars / Subject Matter Experts upto a maximum of Rs.72,000/- over a period of 12 months. Disbursement of this amount will be made on quarterly basis (Rs.18,000/- per quarter) in advance of the quarter beginning. Disbursement of payment for the 1<sup>st</sup> quarter will be made within 7 working days from the date of signing of this agreement. Subsequent quarterly payments will be made on receipt of the actual expenditure details of the previous quarter.

After completion of the said project, the laptops provided can be transitioned to the next set of project(s) commissioned by the PROJECT OWNER in collaboration with the EXECUTION PARTNER. Subject to active collaboration with the PROJECT OWNER on projects for a minimum period of 3 years, the laptops may be retained by the University for further use.

#### F) Review process

The PROJECT OWNER and the EXECUTION PARTNER shall jointly put into place a periodical review process to ensure timely achievement of the stated objectives of the project. Such reviews may be conducted as per a mutually accepted schedule and in addition, in the event of any troubleshooting or specific requirement(s) or request(s) put forth by any of the parties.

#### G) Confidentiality and non-disclosure

- Shastra-mapping training materials and resources shared by the PROJECT OWNER including audio and video recordings, must not be stored, copied or transmitted by the EXECUTION PARTNER without the explicit permission of the PROJECT OWNER.
- ii. All materials produced as part of this project by the EXECUTION PARTNER can be accessed and used by both the parties without any further commitments between the parties.

#### H) Managing resource personnel

 Appointment, management and termination of contracts with Research Scholars will be the exclusive domain of the EXECUTION PARTNER.

Dr. SHIVAN V

Professor and Head

Per of Valarera Smerra Facult

Deat of Valarera Smerra Facult

Rarrataka Samskrit University

Karrataka Samskrit University

BENGALURU 560 304

K.S. SHANMUGAM C CITY OF CHENNA!

For SIDDHANTA KNOWLEDGE FOUNDATION

In case of termination of contract with any Research Scholar(s) or replacement(s) ii. made, the EXECUTION PARTNER will notify the PROJECT OWNER of such developments. The EXECUTION PARTNER will also sign a non-disclosure agreement with such outgoing Research Scholar(s) with regard to materials produced as part of this project and training materials that may have been shared by the PROJECT OWNER, including audio and video recordings. Such materials cannot be stored, copied or transmitted by the outgoing Research Scholar(s) without the explicit permission of the EXECUTION PARTNER and the PROJECT OWNER, respectively.

#### I) Termination of Agreement

- i. This Agreement can be terminated by any of the parties by giving a notice of 2 months to the other parties. All materials produced as part of this project upto the point of termination of Agreement will be made available to the PROJECT OWNER by the EXECUTION PARTNER and can be accessed and used by both the parties without any further commitments between the parties.
- ii. No other claims of any nature will be entertained by any of the parties subsequent to termination of this Agreement.

SIGNED FOR AND ON BEHALF OF THE PARTIES:

Department of Vyakarana, Karnataka Samskrit University

professor and Head of Vvalarana Sheetra Focul

Karparora Samskar university

Siddhanta Knowledge Foundation

For SIDDHANTA KNOWLEDGE FOUNDATION

Director

Name: Dr. V. Shivani

Date: 15/11/2021
Place: Bengulm

Name : G VISHNU VARDHAN

Date : 10th NOVEMBER 2021

Place: CHENNAI

ATTESTED BY ME Notary:

edrenahalli r

Y OF CHENNA Go. Ms.

Notary: ADVOCATE & NOTARY PUBLIC EGMORE COURT

ADVOCATE ASSOCIATION EGMORE, CHENNAI-600 008. Cell: 98413 59235





सत्यमेव जयते

#### Certificate No.

Certificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Description

Consideration Price (Rs.)

First Party

Second Party

Stamp Duty Paid By

Stamp Duty Amount(Rs.)

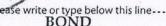
## INDIA NON JUDICIAL

## Government of Karnataka

#### e-Stamp

- : IN-KA11230105153961Q
- : 06-Mar-2018 11:55 AM
- : NONACC (BK)/ kaapxbk09/ BANGALORE/ KA-BA
- : SUBIN-KAKAAPXBK0970949541307608Q
- : VICE CHANCELLOR KARNATAKA SAMSKRIT UNIVERSITY
- : Article 12 Bond
- PROJECT AGREEMENT
- . 0
  - (Zero)
- : VICE CHANCELLOR KARNATAKA SAMSKRIT UNIVERSITY
- VICE CHANCELLOR RASHTRIYA SAMSKRITA SAMSTHAN
- : VICE CHANCELLOR KARNATAKA SAMSKRIT UNIVERSITY
- : 100
  - (One Hundred only)





Know all men by these presents that we the <u>Karnataka Samskrita University</u> as Association/ Trust/Non-Profit Making Company registered under <u>KA/BG-GPO/2515/WPP-47/2009-2011</u>, <u>Karnataka Act No. 13 of 2010</u> (should mention Act and Section) and having its registered office at Karnataka Samskrit University, Pampamahakavi Road, Chamarajpet, <u>Bangalore</u> in the State of <u>Karnataka</u> (here-in-after called the 'Obligators') are held firmly bound to The Vice-Chancellor, Rashtriya Sanskrit Sansthan (herein-after called the 'Sansthan') in the sum of Rs. 2,20,000\_(In figures) Rupees (In words) <u>Two Lacs Twenty Thousand</u> (only) with interest therein @ 10% per annum well and truly to be paid to the Sansthan on demand and without demur on this 6 day of March in the year 2018 and thereby sign and execute this bond.

#### Statutory Alert:

- 1 The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
- 2 The onus of checking the legitimacy is on the users of the certificate 3 In case of any discrepancy please inform the Competent Authority

# RASHTRIYA SANSKRIT SANSTHAN (Deemed University)

56-57, Institutional Area, Janakpuri, New Delhi - 110 058.

(Incomplete Proforma shall not be entertained)

# (26,29)

#### Ashtadashi Schemes-2017

APPLICATION FORM
FOR FINANCIAL ASSISTANCE UNDER ASHTAADASHI (18 PROJECTS) FOR SUSTAINING THE GROWTH OF SANSKRIT

1. Name of the organization

: Karnataka Samskrit University (KSU)

2. Complete postal Address

: Pampa Mahakavi Road, Chamarajpet, Bangalore- 560018, Karnataka, India

3. Phone Number

: +91 080 26701303

4. Fax Number

: NIL

5. Email address

: karnatakasamskrituniversity@gmail.com

 Date of Registration (copy of Registration certificate) in case of NGOs please furnish U.I.D no.and also enclose a copy

: 2010 (KSU); 07-12-2012 (Vyoma Labs) Copy of Registration certificate attached. NGO UID status attached

7. Infrastructure and facilities available

: Rooms, basic equipment's with internet connections are available.

8. Major activities in promotion of Sanskrit during the last 03 Years (yearwise)

: Already furnished during proposal time.

9. Projects for which Financial Assistance is being sought

1. Title of the Project

: Critical Editing and Publishing a rare Manuscript -Sarvapratyayamala (A Grammatical Treatise written by Shankararya)

2. Name of the Project Area

: Sanskrit Grammar

3. Name of the Institution

: Karnataka Samskrit University (KSU)

4. Name and designation of the

Principal Investigator (P.I.)

Shivani V, Associate Professor, KSU

6. Details of the Projects under taken by the P.I. (completed or ongoing) :

S.No	Name of the Project	Duration of the Project	Funding Agency	Total Budget	Present Status
l	Pali Morphological Generator and Analyser	2Yeras	Pali Institute, Kalburgi	10 Lacs	Completing

#### 7. Brief introduction about Project:

The present treatise, Sarvapratyayamālā, is a significant contribution to the tradition of grammar. It narrates elaborately the prefixes and suffixes of Pāṇinian System with suitable illustrations. Six incomplete manuscripts which are available in verse form in Grantha, Malayalam and Devanagari. There are four manuscripts written in Grantha script. One is in Malayalam script and the left one is in Devanagari script.

It is proposed to edit the work based on the available manuscripts. The merit of the work as a grammatical treatise will be assessed in relation with other grammatical works of Kerala. It requires further research and studies. I hope the present research of the text and the author will be a great contribution particularly to the grammar tradition of Kerala. This study may shed a new light in the field of Sanskrit grammar of Kerala.

## 8. Objectives of the Project (Point wise)

The broad aim & objectives of the project are as follows:

- 1. Editing a Manuscript Sarvapratyayamala (A Grammatical Treatise written by Shankararya
- 2. The manuscripts will be critically edited and printed and made available for public.
- 3. The proposal involves collection of original manuscripts, in the form of images. Manual collection of data and Data entry are the ways to create content
- 4. Data analysis, processing, content analysis will be done and the edited book will be printed.

## 10. Proposed outcome of the Project

1. Sarvapratyamala will be critically edited and published in printed and electronic form.

#### 11. Methodology

- (a) Coverage (please attach separate sheet giving the serial no. 11 (a)) Critical Editing, Indexing and Printing of the Manuscript.
- (b) Data Collection/analysis or any other activity (please specify) Collection of manuscripts from various institutions.

#### 12. Proposed Budget

Non-Recurring grants (equipment, Books & Journals etc):-

Non - Recurring grants for first year only *		
S.No	Item	Amount Proposed
	Books, Manuscripts	35000
	Total Non recurring costs	35000

Recurring grants (also given on a separate sheet):-

	Recurring grants for first year o	nly *		
All amounts to be disbursed to KSU only.				
S.No	ltem	Amount Proposed		
1	Keying and Page setting	30000		
2	Project Consultancy	50000		
3	Travel	25000		
3	Printing	60,000		
4	Hiring service ( experts)	10000		
5	Stationary	5000		
(vii)	Product Release	10000		
(viii)	Contingency (5%)	10000		
(ix)	Overheads (5%)	10500		
	Total Recurring costs	2,20,500		

GRAND TOTAL - 2,20,500 ( Two Lacs Five Hundred Only)

13.

b. a. Detailed Bio-data of the P.I. along with the List of publications (please enclose)

b. Experience in the proposed area

Signature of Principal

Investigator

Signature of forwarding authority/Head of the Institution along with Seal

(Prof Padma Sekkar , Vice Chancellor, Karnataka Samskrit University )

(Recommendation of the State Govt./ Registrar concerned University)

Shilpa M, KAS, Registrar, Karnataka Samskrit University

# द्रीय संस्कृत विश्वविद्यालय

संसद के अधिनियम द्वारा स्थापित (पूर्व में राष्ट्रिय संस्कृत संस्थान, मानित विश्वविद्यालय) शिक्षा मन्त्रालय, भारत सरकार वे अधीन 56-57. सारधानिक क्षेत्र, जनकपूर्ग, नई दिल्ली 110058



# Central Sanskrit University

Established by an Act of Parliament

(Formerly Rashtnya Sanskrit Sansthan, Deemed to be University) Under Ministry of Education, Govf, of India 56-57, Institutional Area, Janakpurt, New Delta, 110058

Dated: 14.02.2023

F.No.CSU/Ashtaadashl-V/2021-22/23/25 2

To

The Registrar Karnataka Samskrit University, Bengaluru Pampa Mahakavi Road, Distt.- Nagpur, Maharashtra - 441 106.

Sub.:- Providing financial assistance under "Ashtaadashi (18 Projects)" for the year 2021-22.

Sir,

In reference to the above cited subject matter, I am directed to convey the approval of Grantin-Aid Committee and Competent Authority of the University for providing financial assistance of Rs.7,50,000/- (Rupees seven lakh fifty thousand only) under Ashtaadashi (18 Projects) in order to conduct/complete the following project:-

Project Name:	Sanctioned Grant-in-Aid
Shabdashala Project - Mahakosha (The Knowledge Net of all Ancient Sanskrit Koshas) (P.I Prof. Shivani V)	Rs.1500000/- (fifteen lakh only)

In this context, it is to inform in terms of Ashtaadashi Guidelines that 50% of the sanctioned Grant-in-Aid i.e. Rs.7,50,000/- (Rupees seven lakh fifty thousand only) has already been electronically transferred to your account on 07.02.2023 (copy enclosed). The balance amount will be released (as per clause No. 13 of Ashtaadashi guidelines) on the recommendations of the Expert Committee, on submission of statement of expenditure to the extent of at least 80% of the grant released of the first instalment and utilization certificate of the sanctioned Project. Thereafter, the University shall consider to release of 2<sup>nd</sup> instalment i.e. 40% grant of the approved project. At last, final 10% of the grant of approved project will be released only after completion of the said Project, submission of accounts/expenditure & utilization certificate of the sanctioned amount and detailed report on project (in soft & hard copy) etc. in the prescribed proforma (Form No. Ashtaadashi -III to VII).

In addition, University has reserved the right to inspect the project at any time without prior intimation. Hence, Project Director should make available to the representative of the University regarding the project initiative details (Project starting, dates, Timing, place, venue, concerned person name & phone number etc.). The Grant-in-Aid must be utilized by strictly following Ashtaadashi Guidelines. The projects/activities conducted with the financial assistance of CSU under the scheme, must be acknowledged by appropriate displaying of name & logo of CSU and also as per revised estimate submitted by you.

Therefore, you are hereby requested to initiate further necessary steps to start the project works keeping in view of Ashtaadashi guidelines, which is also available in the University's website i.e. www.sanskrit.nic.in .

This is issued with the approval of the Competent Authority.

Yours faithfully,

(Dr. Chakradhar Meher) Ashtaadashi I/c RSKS/SC/1- 446/2015-16/S-II 9 H S

#### RASHTRIYA SANSKRIT SANSTHAN

(DEEMED UNIVERSITY) 56-57, INSTITUTIONAL AREA, JANAKPURI, NEW DELHI-110058

Dated: - 23.05.2016

To.

Prof. Mallepuram G. Venkatesh (Former Vice-Chancellor of Karnataka Samskrit University) 'Poornapreeti', No.296, 10<sup>th</sup> Main Road M.E.I Layout, Bagalakunte, Dasarahalli Bengaluru-560073

Sir.

With reference to recommendation of the 21<sup>st</sup> GIAC meeting dated 28.03.2016 under its Table Agenda ltem no 21.3, you are appointed as a Scholar under Shastra Chudamani Scheme which is intended to promote traditional learning through imparting of in-depth coaching in original text and exposition of original text with a view to correlate the ancient and modern thought. The following terms and conditions will govern this appointment.

- 1. The Scholar appointed under the Shastra Chudamani Scheme shall be required to keep himself/herself attached to a Sanskrit Institution University/College, Research Institute selected by the Sansthan.
- 2. The Scholars selected under the scheme shall be required to impart institutions in original text concerning the particular subject in which he/she has specialized to young entrants for teaching profession/ Research scholars senior students attached to prepare a critical edition with introduction of unpublished manuscript/ monography on the subject in which he or she has specialized. The scholars will be scanned after the appointment & prepare a detailed plan of work for the students attached to him/her.
- 3. The Scholar selected under the scheme shall be required to submit a quarterly report in the progress made by him/her and his/her students in the field in which he/she is imparting instructions/preparing critical edition of unpublished text/monography to the Sansthan through the head of the Institution to which he/she is attached.
- 4. The report, thus, submitted shall be subject to scrutiny by a committee of experts to be appointed by the Sansthan from time to time.
- 5. The tenure of assignment of scholar selected under the scheme shall be initially for two years and during this period scholar shall be entitled to a fixed honorarium of Rs 6,000/- p.m. The honorarium will be payable in half yearly installments, in accordance to the documents submitted by the Scholar.
- 6. The tenure of assignment of the scholar may be extended for one year on recommendation of the Head of the Institution to which he/she is attached. The extension proposal will be considered only if it will reach to the Sansthan during 1<sup>st</sup> April 2018 to 15<sup>th</sup> May 2018. Late proposal shall not be considered.
- In evaluating the tenure of the scholar selected under the scheme the date of joining shall be the starting day of appointment or in other words the scholars shall initially be appointed for a period of two years with effect from 1.06.2016 to 31.05.2018
- 8. The scholar selected under the scheme will be required to attend the institution at least three days in a
- 9. The scholar appointed will not be entitled for any dearness allowance, house rent allowance etc.
- 10. The scholar appointed will prepare a critical edition with instruction of any unpublished manuscript or monography running into not less than 150 pages on the special subject which he is teaching. He will be provided up to Rs. 10,000/- as contingency grant for completing this work during the period of his assignment provided he/she fulfills the conditions prescribed for contingency grant.
- 11. The appointment will be treated as valid if the Head of the Institution gives a certificate to the effect that the scholar is physically fit and capable of taking up this assignment.

12. The scholar appointed will have to join the institution on 01.06.2016, failing which it should be treated a

If the above terms and conditions are acceptable to you, you may kindly send your acceptance Latest by 30.05.2016 and join the following institution attached to you.

Name of the Institution:-

Karnataka Sanskrit University
Pampamahakavi Road, Chamarajpet, Bengaluru -560018, Karnataka

Yours faithfully

Chick Malya
1/c Schemes

Copy to:-

Vice Chancellor Karnataka Sanskrit University Pampamahakavi Road, Chamarajpet, Bengaluru -560018, Karnataka

For information with request to send the following documents.

- Duly filled bond by the scholar in his/her name& Counter Signed by the Head of the Institution for Rs. 1,44,000/-
- 2. Duly filled Resolution by the Head of the Institution.
- 3. A stamped receipt in advance for the amount from the date of joining up to the period of six month for which the grant is to be release @ Rs. 6,000/- p.m.
- 4. An undertaking by Scholar.
- Joining Report.
- 6. The certificate as indicated against condition No. 11 of the sanction letter.

Chich'meone

Note: Last dates for submission of Bond-Paper, Pre-Receipt and Progress Report are :

Bond Paper Latest by 30.06.2016

#### **Progress Report and Pre-Receipt**

01.06.2016 – 30.11.2016 Latest by 20.12.2016 01.12.2016 – 31.05.2017 Latest by 20.06.2017 01.06.2017 – 30.11.2017 Latest by 20.12.2017 01.12.2017 – 31.05.2018 Latest by 20.06.2018

The above mentioned Bond Paper, Pre-Receipt and Progress Report should reach within the dates mentioned above failing which the file will be forwarded for cancellation of the sanction.

# RASHTRIYA SANSKRIT SANSTHAN RSKS/SC/1- 447/2015-16/S-II

JANAKPURI, NEW DELHI-110058 56-57, INSTITUTIONAL AREA, (DEEMED UNIVERSITY)

Dated:-

23.05.2016

BSK III Stage, Bengaluru-560085, Karnataka No. 39 Ist Cross Katriguppa Main Road Prof. A. Haridasa Bhat

traditional learning through imparting of in-depth coaching in original text and exposition of original text with a Item no 21.3, you are appointed as a Scholar under Shastra Chudamani Scheme which is intended to promote view to correlate the ancient and modern thought. The following terms and conditions will govern this appointment. With reference to recommendation of the 21st GIAC meeting dated 28.03.2016 under its Table Agenda

- 2 attached to a Sanskrit Institution University/College, Research Institute selected by the Sansthan. The Scholar appointed under the Shastra Chudamani Scheme shall be required to keep himself/herself
- 3 the particular subject in which he/she has specialized to young entrants for teaching profession/ Research scholars senior students attached to prepare a critical edition with introduction of unpublished manuscript/ The Scholars selected under the scheme shall be required to impart institutions in original text concerning appointment & prepare a detailed plan of work for the students attached to him/her. monography on the subject in which he or she has specialized. The scholars will be scanned after the
- edition of unpublished text/monography to the Sansthan through the head of the Institution to which he/she by him/her and his/her students in the field in which he/she is imparting instructions/preparing critical The Scholar selected under the scheme shall be required to submit a quarterly report in the progress made
- S 4 Sansthan from time to time. The report, thus, submitted shall be subject to scrutiny by a committee of experts to be appointed by the
- 6 payable in half yearly installments, in accordance to the documents submitted by the Scholar. The tenure of assignment of scholar selected under the scheme shall be initially for two years and during this period scholar shall be entitled to a fixed honorarium of Rs 6,000/- p.m. The honorarium will be
- the Institution to which he/she is attached. The extension proposal will be considered only if it will reach to The tenure of assignment of the scholar may be extended for one year on recommendation of the Head of
- $\infty$ 7 starting day of appointment or in other words the scholars shall initially be appointed for a period of two the Sansthan during 1<sup>st</sup> April 2018 to 15<sup>th</sup> May 2018. Late proposal shall not be considered. In evaluating the tenure of the scholar selected under the scheme the date of joining shall be the years with effect from 1.06.2016 to 31.05.2018
- 9 The scholar selected under the scheme will be required to attend the institution at least three days in a
- 0 The scholar appointed will not be entitled for any dearness allowance, house rent allowance etc
- The scholar appointed will prepare a critical edition with instruction of any unpublished manuscript or monography running into not less than 150 pages on the special subject which he is teaching. provided up to Rs. 10,000/- as contingency grant for completing this work He will be
- the scholar is physically fit and capable of taking up this assignment. The appointment will be treated as valid if the Head of the Institution gives a certificate to the effect that during the period of his assignment provided he/she fulfills the conditions prescribed for contingency grant.
- The scholar appointed will have to join the institution on 01.06.2016, failing which it should be treated as



50.55.2010 and John the following institution attached to you.

Name of the Institution:-**Karnataka Sanskrit University** Pampamahakavi Road, Chamarajpet, Bengaluru -560018, Karnataka

Yours faithfully

Schemes

Copy to:

**Karnataka Sanskrit University** Vice Chancellor

Pampamahakavi Road, Chamarajpet, Bengaluru -560018, Karnataka

For information with request to send the following documents

- Duly filled bond by the scholar in his/her name& Counter Signed by the Head of the Institution for Rs. 1,44,000/-
- Duly filled Resolution by the Head of the Institution.
- 3 12 which the grant is to be release @ Rs. 6,000/- p.m. A stamped receipt in advance for the amount from the date of joining up to the period of six month for
- An undertaking by Scholar.
- 4.00 Joining Report.
- The certificate as indicated against condition No. 11 of the sanction letter.

Chulety MODM

Note: Last dates for submission of Bond-Paper, Pre-Receipt and Progress Report are:

**Bond Paper** Latest by 30.06.2016

# Progress Report and Pre-Receipt

01.12.2016 - 31.05.201701.06.2016 - 30.11.201601.06.2017 - 30.11.201701.12.2017 - 31.05.2018Latest by 20.12.2016 Latest by 20.06.2017 Latest by 20.06.2018 Latest by 20.12.2017

The above mentioned Bond Paper, Pre-Receipt and Progress Report should reach within the dates mentioned above failing which the file will be forwarded for cancellation of the sanction.

rested somer

# RASHTRIYA SANSKRIT SANSTHAN JANAKPURI, NEW DELHI-110058 56-57, INSTITUTIONAL AREA, (DEEMED UNIVERSITY) RSKS/SC/1- 448/2015-16/S-II

Dated:- 23.05.2016

To.

Girinagar, Bengaluru-560085, Karnataka Vidwan Janardana Hedge Aksharam, 8<sup>th</sup> Cross, 2<sup>nd</sup> Phase

view to correlate the ancient and modern thought. The following terms and conditions will govern this appointment. traditional learning through imparting of in-depth coaching in original text and exposition of original text with a Item no 21.3, you are appointed as a Scholar under Shastra Chudamani Scheme which is intended to promote With reference to recommendation of the 21st GIAC meeting dated 28.03.2016 under its Table Agenda

- attached to a Sanskrit Institution University/College, Research Institute selected by the Sansthan The Scholar appointed under the Shastra Chudamani Scheme shall be required to keep himself/herself
- scholars senior students attached to prepare a critical edition with introduction of unpublished manuscript/ the particular subject in which he/she has specialized to young entrants for teaching profession/ Research The Scholars selected under the scheme shall be required to impart institutions in original text concerning appointment & prepare a detailed plan of work for the students attached to him/her. monography on the subject in which he or she has specialized. The scholars will be scanned after the
- S by him/her and his/her students in the field in which he/she is imparting instructions/preparing critical edition of unpublished text/monography to the Sansthan through the head of the Institution to which he/she Scholar selected under the scheme shall be required to submit a quarterly report in the progress made
- S 4 The report, thus, submitted shall be subject to scrutiny by a committee of experts to be appointed by the
- 6 this period scholar shall be entitled to a fixed honorarium of Rs 6,000/- p.m. The honorarium will be The tenure of assignment of scholar selected under the scheme shall be initially for two years and during payable in half yearly installments, in accordance to the documents submitted by the Scholar.
- 7 the Sansthan during 1st April 2018 to 15th May 2018. Late proposal shall not be considered. the Institution to which he/she is attached. The extension proposal will be considered only if it will reach to The tenure of assignment of the scholar may be extended for one year on recommendation of the Head of
- 00 starting day of appointment or in other words the scholars shall initially be appointed for a period of two years with effect from 1.06.2016 to 31.05.2018 In evaluating the tenure of the scholar selected under the scheme the date of joining shall be the
- The scholar selected under the scheme will be required to attend the institution at least three days in a
- 0 9 The scholar appointed will not be entitled for any dearness allowance, house rent allowance etc
- The scholar appointed will prepare a critical edition with instruction of any unpublished manuscript or provided up to Rs. 10,000/- as contingency grant for completing this work monography running into not less than 150 pages on the special subject which he is teaching. He will be
- 12 The appointment will be treated as valid if the Head of the Institution gives a certificate to the effect that the scholar is physically fit and capable of taking up this assignment. during the period of his assignment provided he/she fulfills the conditions prescribed for contingency grant.
- The scholar appointed will have to join the institution on 01.06.2016, failing which it should be treated as

30.05.2016 and join the following institution attached to you. If the above terms and conditions are acceptable to you, you may kindly send your acceptance Latest by

Name of the Institution:-

Karnataka Sanskrit University

Pampamahakavi Road, Chamarajpet, Bengaluru -560018, Karnataka

Yours faithfully

I/c Schemes

Pampamahakavi Road, Chamarajpet, Bengaluru -560018, Karnataka Karnataka Sanskrit University Vice Chancellor

For information with request to send the following documents

- Duly filled bond by the scholar in his/her name& Counter Signed by the Head of the Institution for Rs.
- 32 Duly filled Resolution by the Head of the Institution.
- A stamped receipt in advance for the amount from the date of joining up to the period of six month for
- 400 An undertaking by Scholar.
- Joining Report
- The certificate as indicated against condition No. 11 of the sanction letter.

I/c Schemes wet moonem

Note: Last dates for submission of Bond-Paper, Pre-Receipt and Progress Report are :

**Bond Paper** Latest by 30.06.2016

# Progress Report and Pre-Receipt

01.12.2016 - 31.05.2017 01.06.2017 - 30.11.2017 01.12.2017 - 31.05.2018 01.06.2016 - 30.11.2016 Latest by 20.12.2016 Latest by 20.06.2017 Latest by 20.12.2017 Latest by 20.06.2018

The above mentioned Bond Paper, Pre-Receipt and Progress Report should reach within the dates mentioned above

# द्रीय संस्कृत विश्वविद्यालय

संसद के अधिनियम द्वारा स्थापित (पूर्व में राष्ट्रिय संस्कृत संस्थान, मानित विश्वविद्यालय) शिक्षा मन्त्रालय, भारत सरकार वे अधीन 56-57. सारधानिक क्षेत्र, जनकपूर्ग, नई दिल्ली 110058



# Central Sanskrit University

Established by an Act of Parliament

(Formerly Rashtnya Sanskrit Sansthan, Deemed to be University) Under Ministry of Education, Govf, of India 56-57, Institutional Area, Janakpurt, New Delta, 110058

Dated: 14.02.2023

F.No.CSU/Ashtaadashl-V/2021-22/23/25 2

To

The Registrar Karnataka Samskrit University, Bengaluru Pampa Mahakavi Road, Distt.- Nagpur, Maharashtra - 441 106.

Sub.:- Providing financial assistance under "Ashtaadashi (18 Projects)" for the year 2021-22.

Sir,

In reference to the above cited subject matter, I am directed to convey the approval of Grantin-Aid Committee and Competent Authority of the University for providing financial assistance of Rs.7,50,000/- (Rupees seven lakh fifty thousand only) under Ashtaadashi (18 Projects) in order to conduct/complete the following project:-

Project Name:	Sanctioned Grant-in-Aid
Shabdashala Project - Mahakosha (The Knowledge Net of all Ancient Sanskrit Koshas) (P.I Prof. Shivani V)	Rs.1500000/- (fifteen lakh only)

In this context, it is to inform in terms of Ashtaadashi Guidelines that 50% of the sanctioned Grant-in-Aid i.e. Rs.7,50,000/- (Rupees seven lakh fifty thousand only) has already been electronically transferred to your account on 07.02.2023 (copy enclosed). The balance amount will be released (as per clause No. 13 of Ashtaadashi guidelines) on the recommendations of the Expert Committee, on submission of statement of expenditure to the extent of at least 80% of the grant released of the first instalment and utilization certificate of the sanctioned Project. Thereafter, the University shall consider to release of 2<sup>nd</sup> instalment i.e. 40% grant of the approved project. At last, final 10% of the grant of approved project will be released only after completion of the said Project, submission of accounts/expenditure & utilization certificate of the sanctioned amount and detailed report on project (in soft & hard copy) etc. in the prescribed proforma (Form No. Ashtaadashi -III to VII).

In addition, University has reserved the right to inspect the project at any time without prior intimation. Hence, Project Director should make available to the representative of the University regarding the project initiative details (Project starting, dates, Timing, place, venue, concerned person name & phone number etc.). The Grant-in-Aid must be utilized by strictly following Ashtaadashi Guidelines. The projects/activities conducted with the financial assistance of CSU under the scheme, must be acknowledged by appropriate displaying of name & logo of CSU and also as per revised estimate submitted by you.

Therefore, you are hereby requested to initiate further necessary steps to start the project works keeping in view of Ashtaadashi guidelines, which is also available in the University's website i.e. www.sanskrit.nic.in .

This is issued with the approval of the Competent Authority.

Yours faithfully,

(Dr. Chakradhar Meher) Ashtaadashi I/c भारत सरकार

Government of India इह्रोक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय

Ministry of Electronics & Information Technology इलेक्ट्रॉनिक्स निकेतन, ६, सी जी ओ कॉम्प्लेक्स, नई दिल्ली-110003

Electronics Niketan, 6, C G O Complex, New Delhi-110003

Website: www.meity.gov.in

संख्या

दिनांक

No.11(1)/2022-HCC(TD1L)-Part(7)

Date 25.03.2022

#### ADMINISTRATIVE APPROVAL

Subject: Administrative Approval for implementation of the Sub Project 'An Interpretable Unified Framework for Text-to-Text Translation among Indian Languages using Sanskrit-based Interlingua Representation' under the Project titled 'National Language Translation Mission (NLTM): BHASHINI'.

Implementing Agency:

IIT, Kharagpur – Consortium Leader and IIT Bombay, IIT Kanpur, IISc Bangalore, Karnataka Samskrit University,

C-DAC Bangalore as Consrotium Members.

The undersigned is directed to refer to this Ministry's letter of No.11(14)/2018-HCC(TDIL) dated 13.10.2021 conveying the Administrative Approval for the implementation of the Project titled 'National Language Translation Mission (NLTM): BHASHINI' by Digital India Corporation (DIC), C-DAC, R&D Institutions for research through call for proposals and Other Implementing Agencies (To be identified) with the total outlay of the project of Rs. 495.51 Crore (Rupees four hundred ninety-five crore fifty one lakh only) as Grants-in-aid from Ministry of Electronics and Information Technology (MeitY). The duration of the projects is 36 months. The start of the Mission will be the date of the first release of Grant-in-aid. However, disbursement may go beyond the duration of the Mission.

- 2. Now, the undersigned is directed to convey the Administrative Approval for the implementation of the sub-project namely 'An Interpretable Unified Framework for Text-to-Text Translation among Indian Languages using Sanskrit-based Interlingua Representation' under the Project titled 'National Language Translation Mission (NLTM): BHASHINI' to be implemented by IIT, Kharagpur Consortium Leader and IIT Bombay, IIT Kanpur, IISc Bangalore, Karnataka Samskrit University, C-DAC Bangalore as Consrotium Members at the total outlay of the project is Rs. 3,43,76,700/- (Rupees three crore forty-three lakh seventy-six thousand seven hundred only) as Grants-in-aid from Ministry of Electronics and Information Technology (MeitY) for a period of 03 years. The details of the project are at Annexure– I.
- 3. The standard terms and conditions governing the Grants-in-aid are enclosed at Annexure II.

This issues with the approval of Secretary, MeitY vide computer no. 3083439 dated 23.03.2022 and concurrence of Integrated Finance Division, MeitY vide computer no. 3083439 dated 04.02.2022.

(Sandeep Kumar Ambasta)
Deputy Director

#### Copy to:

- 1. Pay & Accounts Officer, Pay & Accounts Office. MeitY.
- Office of Principal Director of Audit, Scientific Department, Shamnath Marg, Civil Lines, Delhi – 110 054.
- Finance Division. MeitY.
- 4. DDO, MeitY (two copies).
- 5. Chief Investigator, Co-Investigators and Head of Implementing Agencies of the Projects.
- 6. Economic Advisor, MeitY.
- 7. Shri Vijay Kumar, Scientist 'F', MeitY.
- 8. Shri Rajeshwar Singh Janwar, Scientist 'E', MeitY.
- 9. Shri Bharat Gupta, Scientist 'D', MeitY and Sanction File.

(Sandeep Kumar Ambasta) Deputy Director \[
 \left(\text{Annexure} - 1\) to the Administrative Approval No. 11(1)/2022-HCC(TDIL)-Part(7) dated 25.03.2022.
 \]

1.	Title of Project:	An Interpretable Unified Framework for Text-to-Text Translation among Indian Languages using Sanskrit-based Interlingua Representation				
2.	Implementation Agencies:	IIT, Kharagpur – Consortium Leader and IIT Bombay, IIT Kanpur, IISc Bangalore, Karnataka Samskrit University, C-DAC Bangalore as Consrotium Members.				
3.	Chief Investigator:	Pawan Goyal, Associate Professor, IIT Kharagpur				
4.	Co-Investigator:	PIs from other institutes:				
		Ganesh Ramakrishnan (IIT Bombay), Arnab Bhattacharya (IIT Kanpur), Prathosh A.P (IISc Bangalore), Shivani V (Karnataka Sanskrit University), Annarao Kulkarni (CDAC, Bangalore)				
		Co-investigator:				
	Lesandresman in 1991 98 185	Sudeshna Sarkar (IIT Kharagpur)				
5.	Background/Nature of Project: Research and Development					
	system for the translation of text proposes to use an interlingual fr of Sanskrit. The project will focus subset of Indian languages such t	linguistically faithful and interpretable translation among multiple Indian languages. The project amework rooted in the traditional grammatical system on Hindi, Sanskrit and Kannada as a representative that any observations and research innovations languages would benefit other languages.				
6.	Broad Objectives of the Project:					
	Towards the primary objective of text-to-text translation, the project will have the following sub-objectives:					
	a) Develop an explainable interlingua interpreter that can capture linguistic characteristics of the languages considered under the framework and facilitate translation among these languages					
	b) Develop a text-to-text (T2T) translation module for translation among text in different languages and the interlingua structure					

c) Human benchmarking of explainability and linguistic correctness of interlingua as a post-hoc explainer Deliverables/Expected outcome in physical terms (as applicable): 7. T2T translation systems (Language pairs corresponding to Sanskrit, Hindi, Kannada): The interlingua-based translation models for improved interpretability and faithfulness: API and Web-interface. The models are expected to be more accurate than the available open-source models at ULCA platform, or the Indic-trans platform. Linguistically rich annotated data for the 3 languages: 40k sentences per language, which will be annotated as per the interlingua annotation scheme with the help of the available morphology tools. The data will be released under CC-BY 4.0 license and can be used for any purpose by all on ULCA. 3 Years Duration of Project: 8. 9. Milestones: Months 1-6 Collecting raw and parallel data Months 7-12 Design of annotation schema for the interlingua with a usable API Morpho-syntactic annotation as per interlingua schema with the help of morphological tools: 2k sentences per language Months 13-18 Morpho-syntactic annotation as per interlingua schema with the help of morphological tools: 13k sentences per language Deep Learning components for all the subsystems across all language verticals Months 19-24 Morpho-syntactic annotation as per interlingua schema with the help of morphological tools: 25k sentences per language Interlingua Interpreter: Automated feature generation and feature selection Interlingua Interpreter: Scoring mechanism for feature subspaces from the feature selection framework Automated extension of universal interlingua representation to target language-specific representation

#### Months 25-30

Building the interlingua-based translation model using the subsystems for improved interpretability and faithfulness: API and Web-interface

Benchmarking the interlingua guided text to text translation systems across baseline systems available on ULCA; profiling its various components

#### Months 31-36

Human benchmarking of explainability / linguistic correctness of interlingua as a post-hoc explainer

Finalizing and open-sourcing the modules and datasets

Dissemination

10.	Agency with which link up is established/proposed:	Language Curry www.languagecurry.com (Expression of Intent Letter)
	6	Reverie Language Technologies Ltd.: https://reverieinc.com/ (Expression of Intent Letter)
11.	Likely End User(s):	Useful as an API based service for startups, as a web service for end users, as a pedagogical system for language learning. Expression of interest from Language curry and Reverie Inc
		The findings of the project will also be usable more widely by the research community.

12. Total Budget outlay (year wise): Rs. 3,43,76,700/- (Rupees three crore forty-three lakh seventy-six thousand seven hundred only)

Rs.In Lakhs SI. Head Year 1 Year 2 Year 3 Total No. Equipment 1 6.3 6.3 2 Manpower 95.64 95.64 95.64 286.92 Consumable 3 1.5 1.5 1.5 4.5 Travel 4 1.6 2.5 2.5 6.6 Contingency 2.1 5.75 9.95 2.1 Others (Misc.) 1.5 1.5 4.5 1.5 Sub-Total (2 to 5) 6 102.34 106.89 312.47 103.24 Overheads (at 8% of 7 8.259 8.187 8.551 24.997 6) 8 Grand Total (1+6+7) 116.827 111.499 115.441 343.767

## Institute Wise Budget Outlay:

## IIT, Kharagpur

SI. No.	Head	Year 1	Year 2	Year 3	Total Rs.In Lak
1	Equipment	0.65	0	0	0.65
2	Manpower	20.04	20.04	20.04	60.12
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.35	0.5	0.5	1.35
5	Contingency	0.35	0.35	4	4.7
	Others (Misc.)	0.25	0.25	0.25	0.75
5	Sub-Total (2 to 5)	21.24	21.39	25.04	67.67
7	Overheads (at 8% of 6)	1.699	1.711	2.003	5.413
3	Grand Total (1+6+7)	23.589	23.101	27.043	73.733

## IIT, Bombay

SI. No.	Head	Year 1	Year 2	Year 3	Rs.In Lakhs
1	Equipment	0.65	0		
2	Manpower	15.84	15.84	15.84	0.65
3	Consumable	0.25	0.25		47.52
4	Travel	0.25	e distance	0.25	0.75
5	Contingency		0.4	0.4	1.05
		0.35	0.35	0.35	1.05
•	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	
7	Overheads (at 8% of 6)	1.3552	1.3672		51.12
8	Grand Total (1+6+7)	18.9452		1.3672	4.0896
		10.9452	18.4572	18.4572	55.8596

## IIT, Kanpur

Rs.In Lakhs

SI. No.	Head	Year 1	Year 2	Year 3	Total
1	Equipment	0.65	0	0	0.65
2	Manpower	15.84	15.84	15.84	47.52
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	51.12
7	Overheads (at 8% of 6)	1.3552	1.3672	1.3672	4.0896
8	Grand Total (1+6+7)	18.9452	18.4572	18.4572	55.8596

## IISc, Bangalore

SI. No.	Head	Year 1	Year 2	Year 3	Rs.In Lakh Total
1	Equipment	0.65	0	0	0.65
2	Manpower	15.84	15.84	15.84	47.52
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	51.12
7	Overheads (at 8% of 6)	1.3552	1.3672	1.3672	4.0896
8	Grand Total (1+6+7)	18.9452	18.4572	18.4572	55.8596

## KSU, Bangalore

Rs.In Lakhs

SI. No.	Head	Year 1	Year 2	Year 3	Total
1	Equipment	2.5	0	0	2.5
2	Manpower	15.84	15.84	15.84	47.52
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	16.94	17.09	17.09	51.12
7	Overheads (at 8% of 6)	1.3552	1.3672	1.3672	4.0896
8	Grand Total (1+6+7)	20.7952	18.4572	18.4572	57.7096



## C-DAC, Bangalore

Rs.In Lakhs

SI. No.	Head	Year 1	Year 2	Year 3	Total
1	Equipment	1.2	0	0 .	1.2
2	Manpower	12.24	12.24	12.24	36.72
3	Consumable	0.25	0.25	0.25	0.75
4	Travel	0.25	0.4	0.4	1.05
5	Contingency	0.35	0.35	0.35	1.05
	Others (Misc.)	0.25	0.25	0.25	0.75
6	Sub-Total (2 to 5)	13.34	13.49	13.49	40.32
7	Overheads (at 8% of 6)	1.0672	1.0792	1.0792	3.2256
8	Grand Total (1+6+7)	15.6072	14.5692	14.5692	44.7456

#### Special terms and conditions:

- At the end of one year, models should be more accurate than available open-source models on the ULCA platform which is a mandatory Condition for project continuation else the projects can be shortly closed.
- In the case of research proposals, if performance criteria are met at the end of one year, PI may request additional funding for more corpus creation in the form of a new proposal which can be considered depending on the availability of funds.
- ULCA API based Data and Models should be made available in open source by
  maintaining the GitHub Repository by the concerned
  Researcher/Consortia/Ekstep/other contributor and then be ported from
  GitHub onto the Bhashini platform by the DevOps team of DIC. Source code
  should be released under an open-source license, and it should be
  downloadable, compiled, installed along with necessary data by anyone
  without any registration/permissions. The data to be released under CC-BY 4.0
  license with attribution to NLTM, shall be used for any purpose by all.
- The corpus funded to R&D under the Mission should be newly created and of Gold Standard and independent of the data to be developed under DMU. The process and methods to be developed to avoid duplication of data. The PI is responsible to collect all data required to meet their promised performance. However, PI may leverage the data developed by DMU, if applicable. The data source should be declared prior to the collection for avoiding data duplication among various stakeholders under the Mission. And, the corpus funded under the Mission is to be utilised for the generation of unique corpus only. The process to ensure this should be automatic through the platform. The three expert committees mentioned in the Mission Document will lay guidelines to ensure coordinated data development under the mission. The committees will be set up by MeitY and will function in close coordination with NHLT. These committees will also work on the development of more benchmarks in discussion with Consortia e.g. domain-specific etc.

# 14. Project Review & Monitoring: EC Committee will continue to work as PRSG

#### 15. Benefits:

Deep learning systems have been quite successful recently in speech/text translations among the languages of west Europe. They, however, require a large amount of parallel data for every pair of source and target languages posing a serious drawback for application in Indian languages. This project, thus, aims to address this by incorporating an interlingua framework based on grammatical tradition of Sanskrit in order to reduce the data requirement and also to get interpretability and faithfulness to produce a hybrid pipelined translation system for 3 Indian languages,

harnessing the representational power of deep learning and insights from Sanskrit grammar.

16. Stages for Release of Payment:

Pre-condition status of implementation: Issue of Administrative Approval and as per quantitative roadmap

Documentation to be supplied by Implementation Agency: Acceptance to the terms and conditions of GIA, special terms and conditions for the Mission project, Progress Report, UC

Amount to be Released: As per the recommendation of PRSG for release followed by the availability of fund and as proposed by Programme Division

harnessing the representational power of deep learning and insights from Sanskrit grammar.

16. Stages for Release of Payment:

Pre-condition status of implementation: Issue of Administrative Approval and as per quantitative roadmap

Documentation to be supplied by Implementation Agency: Acceptance to the terms and conditions of GIA, special terms and conditions for the Mission project, Progress Report, UC

Amount to be Released: As per the recommendation of PRSG for release followed by the availability of fund and as proposed by Programme Division



## THIS AGREEMENT HAS BEEN ENTERED INTO BY:

Siddhanta Knowledge Foundation, a Section 8 Company registered under the Companies Act 1956, having its office at 72, Marshalls Road, Egmore, Chennai – 600008, India, represented by its Director, Mr.G Vishnu Vardhan, hereinafter referred to as "PROJECT OWNER".

#### WITH

The Department of VyAkarana, Karnataka Samskrit University, Pampa Mahakavi Road, Chamarajpet, Bengaluru – 560018, represented by its Head of the Department, Professor Ms.Shivani V, hereinafter referred to as "EXECUTION PARTNER".

Dr. SHIVANI.V

Dr. SHIVANI.V

Professor and Head

Professor and He

For SIDDHANTA KNOWLEDGE FOUNDATION

GO. MS.

Director

#### The following has been agreed by the parties:

#### A) Purpose of Agreement

The purpose of this Agreement is to establish the terms and conditions for the implementation of the project to produce a detailed 'ShAstra-mapping' of the Yogasutram and the MahAbhashyam texts, thereby enabling development of easy, effective and logical learning resources for these texts. This Agreement specifies the implementation framework for the project including timeline, responsibilities of the parties, allocation and disbursement of funds and other operational aspects of the project.

#### B) Project timeline & extension of duration

The duration of this project will be for a period of 12 months from the date of signing of this Agreement. Any extension of the duration of the project and the terms and conditions thereof, will be based on mutual discussion and consent.

#### C) Responsibilities of the parties to this Agreement

The EXECUTION PARTNER shall select and appoint Research Scholars to enable mapping of the aforementioned texts and design a suitable schedule and process mechanism to achieve the desired objectives / output(s) as agreed upon with the PROJECT OWNER.

The PROJECT OWNER shall arrange for training of the Research Scholars appointed by the EXECUTION PARTNER in the specific methodology required to enable the *ShAstra*-mapping of selected parts of the aforementioned texts. The PROJECT OWNER agrees to allocate required funds and resources for implementation of the project as agreed with the EXECUTION PARTNER, as specified in Clauses D and E. Also, the PROJECT OWNER shall coordinate with the EXECUTION PARTNER to ensure timely completion of the project and achievement of the stated objectives.

#### D) Budget for the project : funds allocation and disbursement

The total amount of INR 4,80,000 (Rupees Four Lakhs Eighty thousand only) is inclusive of all expenses and costs specified in this Agreement, other than the amount mentioned in clause E, as budgeted and allocated by the PROJECT OWNER, till the completion of the said project, for the period of 12 months as mentioned in Clause B. Disbursement of amount to the EXECUTION PARTNER towards this project will be made by the PROJECT OWNER on a quarterly basis in advance on the 7<sup>th</sup> of the quarter beginning. If the 7<sup>th</sup> is a holiday, disbursement will be made on the next available working day. Disbursement of payment for the first quarter will be made within 7 working days from the date of signing of this Agreement.

Dr. SHIVANI.V

Professor and Head

Professor and Head

Dept of Vvakarana Shastra Faculty

Karnataka Samskrit University,

Karnataka LURU - 560 004.

FOR SIDDHANTA KNOWLEDGE FOUNDATION

Director

K.S. SHANMUGAM

CITY OF CHENNAI

Ge. Ms.

No. 791/2518

#### E) Resources for the Project

The PROJECT OWNER shall make the following resources available to the EXECUTION PARTNER for the said project purposes.

- Laptop 2 nos
- Rs.10,000/- for purchase of books etc as may be required and mutually agreed.
- Reimbursement of Project related expenses, such as consultancy fee & related travel expenses for Reputed Scholars / Subject Matter Experts upto a maximum of Rs.72,000/- over a period of 12 months. Disbursement of this amount will be made on quarterly basis (Rs.18,000/- per quarter) in advance of the quarter beginning. Disbursement of payment for the 1<sup>st</sup> quarter will be made within 7 working days from the date of signing of this agreement. Subsequent quarterly payments will be made on receipt of the actual expenditure details of the previous quarter.

After completion of the said project, the laptops provided can be transitioned to the next set of project(s) commissioned by the PROJECT OWNER in collaboration with the EXECUTION PARTNER. Subject to active collaboration with the PROJECT OWNER on projects for a minimum period of 3 years, the laptops may be retained by the University for further use.

#### F) Review process

The PROJECT OWNER and the EXECUTION PARTNER shall jointly put into place a periodical review process to ensure timely achievement of the stated objectives of the project. Such reviews may be conducted as per a mutually accepted schedule and in addition, in the event of any troubleshooting or specific requirement(s) or request(s) put forth by any of the parties.

#### G) Confidentiality and non-disclosure

- Shastra-mapping training materials and resources shared by the PROJECT OWNER including audio and video recordings, must not be stored, copied or transmitted by the EXECUTION PARTNER without the explicit permission of the PROJECT OWNER.
- ii. All materials produced as part of this project by the EXECUTION PARTNER can be accessed and used by both the parties without any further commitments between the parties.

#### H) Managing resource personnel

 Appointment, management and termination of contracts with Research Scholars will be the exclusive domain of the EXECUTION PARTNER.

Dr. SHIVAN V

Professor and Head

Perofessor and He

K.S. SHANMUGAM C CITY OF CHENNA!

For SIDDHANTA KNOWLEDGE FOUNDATION

In case of termination of contract with any Research Scholar(s) or replacement(s) ii. made, the EXECUTION PARTNER will notify the PROJECT OWNER of such developments. The EXECUTION PARTNER will also sign a non-disclosure agreement with such outgoing Research Scholar(s) with regard to materials produced as part of this project and training materials that may have been shared by the PROJECT OWNER, including audio and video recordings. Such materials cannot be stored, copied or transmitted by the outgoing Research Scholar(s) without the explicit permission of the EXECUTION PARTNER and the PROJECT OWNER, respectively.

#### I) Termination of Agreement

- i. This Agreement can be terminated by any of the parties by giving a notice of 2 months to the other parties. All materials produced as part of this project upto the point of termination of Agreement will be made available to the PROJECT OWNER by the EXECUTION PARTNER and can be accessed and used by both the parties without any further commitments between the parties.
- ii. No other claims of any nature will be entertained by any of the parties subsequent to termination of this Agreement.

SIGNED FOR AND ON BEHALF OF THE PARTIES:

Department of Vyakarana, Karnataka Samskrit University

professor and Head of Vvalarana Sheetra Focul Karparora Samskar university Siddhanta Knowledge Foundation

For SIDDHANTA KNOWLEDGE FOUNDATION

Director

Name: Dr. V. Shivani

Date: 15/11/2021
Place: Bengulm

Name : G VISHNU VARDHAN

Date : 10th NOVEMBER 2021

Place: CHENNAI

Notary:

ATTESTED BY ME

adrenahalli r

Notary: ADVOCATE & NOTARY PUBLIC EGMORE COURT

ADVOCATE ASSOCIATION EGMORE, CHENNAI-600 008. Cell: 98413 59235

Y OF CHENNA Go. Ms.