



# Media Lab Asia

Innovating for Digital Inclusion

(A Section 25 Company of Department of Electronics and Information Technology,  
Ministry of Communications and Information Technology, Govt. of India)

CIN : U72900MH2001NPL133410  
ISO 9001 - 2008 Certified Organisation

Corporate & Registered Office :  
Samudhi Ventures Park  
No.2, 4th Floor  
Central M.I.D.C. Road  
Andher (East), Mumbai - 400093  
Tel.: +91(22) 28312931 / 28327505  
Fax: +91(22) 28379158

## Information Technology Research Academy (ITRA)

### Administrative Approval

Ref. No.: ITRA/15(188)/Ag&Food/ImageIDGP/01

Date: November 09, 2016

Subject: Administrative Approval for execution of the project "ImageIDGP: Image based for Identification of Individuals, Breeds and Diseases of Pigs and Goats".

#### Implementing Agencies:

- (I) Kalyani Government Engineering College (KGEC), Kalyani, Nadia, West Bengal-Lead Institution-IT;
- (i) Indian Institute of Technology (IIT), Guwahati, Assam-PIN-IT;
  - (ii) ICAR Research Complex for NEH Region (RCNEHR-M), Barapani, Meghalaya-PIN-IT;
- (II) National Research Centre on Pig (NCRP), Guwahati, Assam - Lead Institution-AF;
- (i) ICAR Research Complex for NEH Region (RCNEHR-T), Tripura-PIN-AF;
  - (ii) Assam University (AUS), Silchar, Assam-PIN-AF;
  - (iii) Uttar Banga Krishi Viswavidyalaya (UBKV), Cooch Behar, West Bengal- PIN-AF

Dear Sir,

I am directed to convey the Administrative Approval of the Competent Authority for the implementation of the above named project by the team of 7 institutions with Kalyani Government Engineering College (KGEC), Kalyani (LIN-IT) and ICAR- National Research Centre on Pig (ICAR-NCRP) Guwahati, Assam (LIN-AF). The total estimated cost of the project is Rs. 230.14 Lakhs (Rupees Two Crore Thirty Lakhs and Fourteen Thousand Only) as Grant from ITRA, Media Lab Asia. The duration of the project is 24 months.

2. ITRA, Media Lab Asia shall provide funds for undertaking the Project through a grant of Rs. 230.14 Lakhs (Rupees Two Crore Thirty Lakhs and Fourteen Thousand Only) for the implementation of the above project. The details of the project are given in the Annexure-I enclosed. Also enclosed is Annexure-II containing the **terms & conditions** for the implementation of the said project.

3. You are instructed to send the confirmation of acceptance of **terms & conditions** attached with the Administrative approval in respect of the project. The release of funds shall be subject to receiving the duly signed copy of the terms & conditions by Media Lab Asia.



George Arakal  
Director (Admin. & Finance)

Annexure-I to the Administrative Approval No.:  
ITRA/15(188)/Ag&Food/ ImageIDGP/01

Date : 09.11.2016

1.	Name of the Project	: ImageIDGP: Image based Systems for Identification of Individuals, Breeds and Diseases of Pigs and Goats*
2.	Objective	: i) Identification of trait(s) suitable for unique identification of individual animals ii) Image and DNA based classification of animals into breed level clusters iii) Image based behavioral indications and symptoms of epidemiologically important diseases
3.	Area of Coverage	: IT based Transformations in Indian Agriculture and Food (ITRA-Ag&Food)
4.	Names of the Implementing Agencies and Status	: (i) Kalyani Government Engineering College (KGEC), Kalyani, Nadia, West Bengal-Lead Institution-IT (ii) Indian Institute of Technology (IIT), Guwahati, Assam-PIN-IT; (iii) ICAR Research Complex for NEH Region (RCNEHR-M), Barapani, Meghalaya-PIN-IT; (iv) National Research Centre on Pig (NRCP), Guwahati, Assam - Lead Institution-AF; (v) ICAR Research Complex for NEH Region (RCNEHR-T), Tripura-PIN-AF; (vi) Assam University (AUS), Silchar, Assam-PIN-AF; and, (vii) Uttar Banga Krishi Viswavidyalaya (UBKV), Cooch Behar, West Bengal- PIN-AF
5.	Locations	: (i) KGEC: Kalyani, West Bengal (ii) IIT: Guwahati, Assam (iii) ICAR-RCNEHR-T: Tripura (iv) NRCP: Guwahati, Assam (v) ICAR-RCNEHR-M: Barapani, Meghalaya (vi) AUS: Silchar, Assam (vii) UBKV: Cooch Behar, West Bengal
6.	Principal Investigators	: (i) Dr. S.N. Mandal, Assistant Professor, Dept. of Information Technology, KGEC Kalyani (ii) Dr. P. Guha, Assistant Professor, Dept. of Electronics and Electrical Engineering, IIT Guwahati (iii) Dr. Avijit Haldar, Principal Scientist, ICAR-RCNEHR-T (iv) Dr. N.H. Mohan, Senior Scientist, ICAR-NRCP, Guwahati (v) Dr. Arnab Sen, Principal Scientist, Division of Animal Health, ICAR-RCNEHR-M (vi) Dr. Sankar Kumar Ghosh, Professor and Head, Dept. of Biotechnology, AUS (vii) Dr. Dilip Kumar Hajra, Assistant Professor (Animal Science), Dept. of Agronomy, UBKV
7.	Total project duration	: 24 Months
	i) Expected date of commencement	: November 09, 2016
	ii) Expected date of completion	: November 08, 2018

Technology and Entrepreneurship Development	TED	0.00	0.00	0.00
Travel	Domestic	2.00	2.00	4.00
	International	0.00	4.50	4.50
Miscellaneous & Contingency	Misc	0.16	0.16	0.32
Overhead	Overhead	0.30	0.30	0.60
<b>GRAND TOTAL</b>		<b>25.35</b>	<b>21.80</b>	<b>47.15</b>

c.5 ICAR-RCNEHR-T, Tripura: PIN-AF(a)

(Rs. in Lakhs)

Budget Head		1 <sup>st</sup> year	2 <sup>nd</sup> year	Total
Capital Equipment and works		8.75	0.00	8.75
Consumable Stores	LFC	0.50	0.50	1.00
	S&C	0.00	0.00	0.00
Manpower	RP	3.00	3.00	6.00
	OPSL	1.00	1.00	2.00
	PIP	0.00	0.00	0.00
Training & Development	RMC	0.00	0.00	0.00
Workshop/Conference /Seminar	SSD	0.00	0.50	0.50
	OA	0.00	0.00	0.00
	SPPS	0.00	0.00	0.00
Technology and Entrepreneurship Development	TED	0.00	0.00	0.00
Travel	Dom.	1.00	1.00	2.00
	Intl.	0.00	0.00	0.00
Miscellaneous & Contingency	Misc	0.00	0.00	0.00
Overhead	Overhead	0.20	0.20	0.40
<b>GRAND TOTAL</b>		<b>14.45</b>	<b>6.20</b>	<b>20.65</b>

c.6 AUS, Silchar: PIN-AF(b)

(Rs. in Lakhs)

Budget Head		1 <sup>st</sup> year	2 <sup>nd</sup> year	Total
Capital Equipment and works		12.00	0.00	12.00
Consumable Stores	LFC	5.00	5.00	10.00
	S&C	0.06	0.00	0.06
Manpower	RP	4.20	4.20	8.40
	OPSL	0.00	0.00	0.00
	PIP	0.00	0.00	0.00
Training & Development	RMC	0.00	1.00	1.00
Workshop/Conference /Seminar	SSD	0.50	0.00	0.50
	OA	0.00	0.00	0.00
	SPPS	0.00	0.00	0.00
Technology and Entrepreneurship Development	TED	0.00	0.30	0.30
Travel	Dom.	1.50	1.50	3.00
	Intl.	0.00	0.00	0.00
Miscellaneous & Contingency	Misc	0.00	0.00	0.00
Overhead	Overhead	0.17	0.17	0.34
<b>GRAND TOTAL</b>		<b>23.43</b>	<b>12.17</b>	<b>35.60</b>





অসম বিশ্ববিদ্যালয়

(সংসদ কে অধিনিয়ম কে অন্বেণিত স্থাপিত এক কেন্দ্রীয় বিশ্ববিদ্যালয়)

শিলচর - পিন কোড ৭৮১ ০১১, অসম, ভাৰত

ASSAM UNIVERSITY, SILCHAR

(A Central University Established by an Act of Parliament)

Silchar-788 011, Assam, India

Ref No: AUR/15-1/2016/6864

Date: 11.03.2016

To  
Director- ITRA  
2nd Floor, Block-2,  
C-DOT Campus, Mehrauli  
New Delhi - 110030

**Sub: Letter of participation in ITRA-Ag&Food Project: Image based systems for identification of individuals, breeds and diseases of pigs and goats**

Dear Sir,

I acknowledge that *Dr. Sankar Kumar Ghosh, Professor, Department of Biotechnology* of Assam University has jointly submitted a 3 year R&D team project to ITRA entitled *Image based systems for identification of individuals, breeds and diseases of pigs and goats* with a total outlay of Rs. 309.48 Lakhs, where our institution [Assam University-46.77 Lakhs] would be assuming the role of *Partner* Institution in the team.

The following faculty member from our institution will also participate in the project:

*Name of the Co-PI: Dr. Yashmin Choudhury, Designation: Assistant Professor, Department of Biotechnology*

2. Outline of the project is as follows:

Objectives:	1. Identification of trait(s) suitable for unique identification of individual animals 2. Image and DNA based classification of animals into breed level clusters 3. Image based behavioral indications and symptoms of epidemiologically important diseases.
Deliverables:	i. Data from three different breeds of goats and pigs ii. DNA extraction from different breeds iii. DNA sequencing of goat and pig iv. Genome database development v. Species/Breeds specific DNA sequences
No. of PhD Students involved	• Funding supported from the project: Nil (RA) • Funding supported by the institute: 2 of PhDs

3. The administrative and financial details of our institution are as follows:

Name of Head of Institution	Dr. Sanjib Bhattacharjee	
Email address	registrar@aus.ac.in	
Phone	03842-270806/270368	
Type of Institution	Public (Central Govt.)	
Payee's Bank Account Details	• Beneficiary's Name (As Per Bank Account):	Assam University- Project Account

  
11.3.16

☎ : 03842-270806, 270368

Fax : 03842-270806, e-mail : registrar@aus.ac.in