Annex 1: Ethics Certificate

Ethiopian Civil Service University

Research Affairs Directorate

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ቁጥር: RAD/025/2024
Ref. No.
ቀን: _____
Date: Nov. 23, 2024

Ethics Certificate

To Whom It May Concern,

This is to certify that the research study titled: **"Infrastructure Development and its Implication on Economic Diversification in Selected Peri-urban Areas of Shegar City, Oromia Regional State, Ethiopia"** proposed by:

Ahmed Mohammed
[1] Ethiopian Civil Service University, College of Urban Development and Engineering, Department of Urban Planning and Development, Addis Ababa, Ethiopia;
[2] Arsi Zone Urban Developments and Housing Office. ahmedzmohammed1@gmail.com, +251 911799114

Kanchan Singh
[2] Ethiopian Civil Service University, College of Urban Development and Engineering, Department of Urban Planning and Development, Addis Ababa, Ethiopia. drks197@gmail.com

Ranavijai B. Singh
[3] Ethiopian Civil Service University, College of Urban Development and Engineering, Department of Environment and Climate Change Management, Addis Ababa, Ethiopia. ranavbs@gmail.com

has been reviewed and approved by the Ethiopian Civil Service University, Research Ethics & Intellectual Property Rights Protection Coordination Unit.

The study has been assessed for its compliance with ethical research principles, including respect for human dignity, informed consent, confidentiality, and non-maleficence. The researcher is required to adhere strictly to the ethical guidelines and conditions outlined in the approved proposal during the execution of the study.

Approval is granted with the following specifics:

Ethiopian Civil Service University

Research Affairs Directorate

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ቁጥር: RAD/028/2024
Ref. No.
ቀን: _____
Date: Nov. 23, 2024

Ethical Declaration Letter

To Whom It May Concern,

This is to certify that the research study titled *"Infrastructure Development and Its Implications on Economic Diversification in Selected Peri-Urban Areas of Shegar City, Oromia Regional State, Ethiopia"* has been reviewed and approved by the Ethics and Integrity Center at Ethiopian Civil Service University (ECSU). The specific objectives of the study are as follows:

Annex 2: Ethical Declaration Letter

1. To examine the existing status of infrastructural development in the study area.
2. To identify the current level of farmers' economic diversification strategies in the study area.
3. To analyze the factors influencing farmers' choices of economic diversification strategies in peri-urban areas.
4. To investigate how the accessibility of infrastructural services impacts farmers' economic diversification in peri-urban areas.
5. To examine the mediating effect of farmers' economic diversification on the relationship between infrastructural accessibility and farmers' income sources and prosperity in peri-urban areas.

The research, conducted by Ahmed Mohammed Nur (PhD student) under the supervision of Dr. Kanchan Singh and Dr. Ranavijai B. Singh, adheres to the ethical standards and guidelines set forth by ECSU. The research protocols, including data collection and analysis procedures, were rigorously evaluated to ensure the protection of participants' rights, dignity, and welfare. The study complies fully with ethical requirements, including informed consent processes, confidentiality measures, and robust data management practices.

Should you require additional information, please feel free to contact us.

Sincerely,

Solomon Molla (PhD)
for Research affair Director

ስልክ/ +251-118278508 ወይም +251-118-278502 ፖ.ሣ.ቁ/P.O.Box: 5648 አዲስ አበባ/Addis Ababa

Annex 3: The Release of the funds requested for PhD research

This is The Release of the funds requested for PhD research for Ahmed Mohammed (see Ahmed Mohammed on the list of students, number 2).

ETHIOPIAN CIVIL SERVICE UNIVERSITY
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SCHOOL OF GRADUATE STUDIES
የድህረ- ምረቃ ትምህርት ቤት

Date: 12/12/2014
Ref No: SGS/494/14

To: - The Office of Academic Vice President
ECSU

Subject: Request to Release PhD Research Fund

The following PhD students have presented their PhD dissertation proposal and as confirmed by their supervisors have incorporated all the comments provided by the experts during defense time. Moreover, they fulfilled all requirments including instrument design and thus are ready for data collection. The students are:

1. Addisu Herbeza Woldemariam (CUDE) ---------- 45,000 Birr
2. Ahmed Mohammed Nur (CUDE) ---------- 45,000 Birr
3. Diress Ahmed (CUDE) ---------- 45,000 Birr
4. Gidissa Tariku Daba (CUDE) ---------- 45,000 Birr
5. Endalkachew Getu Alemu (CUDE) ---------- 45,000 Birr
6. Begonet Dale Daga (CUDE) ----------45,000 Birr
7. Abaynew Wudu Belete (CUDE) ---------- 45,000 Birr
8. Zewudu Teshome (CLG) ---------- 45,000 Birr

Therefore, I request the release of a total of ***Birr 360,000 (Three Hundred Sixty Thousand Birr Only)*** for **eight students** listed above. Attached are the copies of confirmation by supervisors, field activity budget breakdown and students personal information.

Best Regards

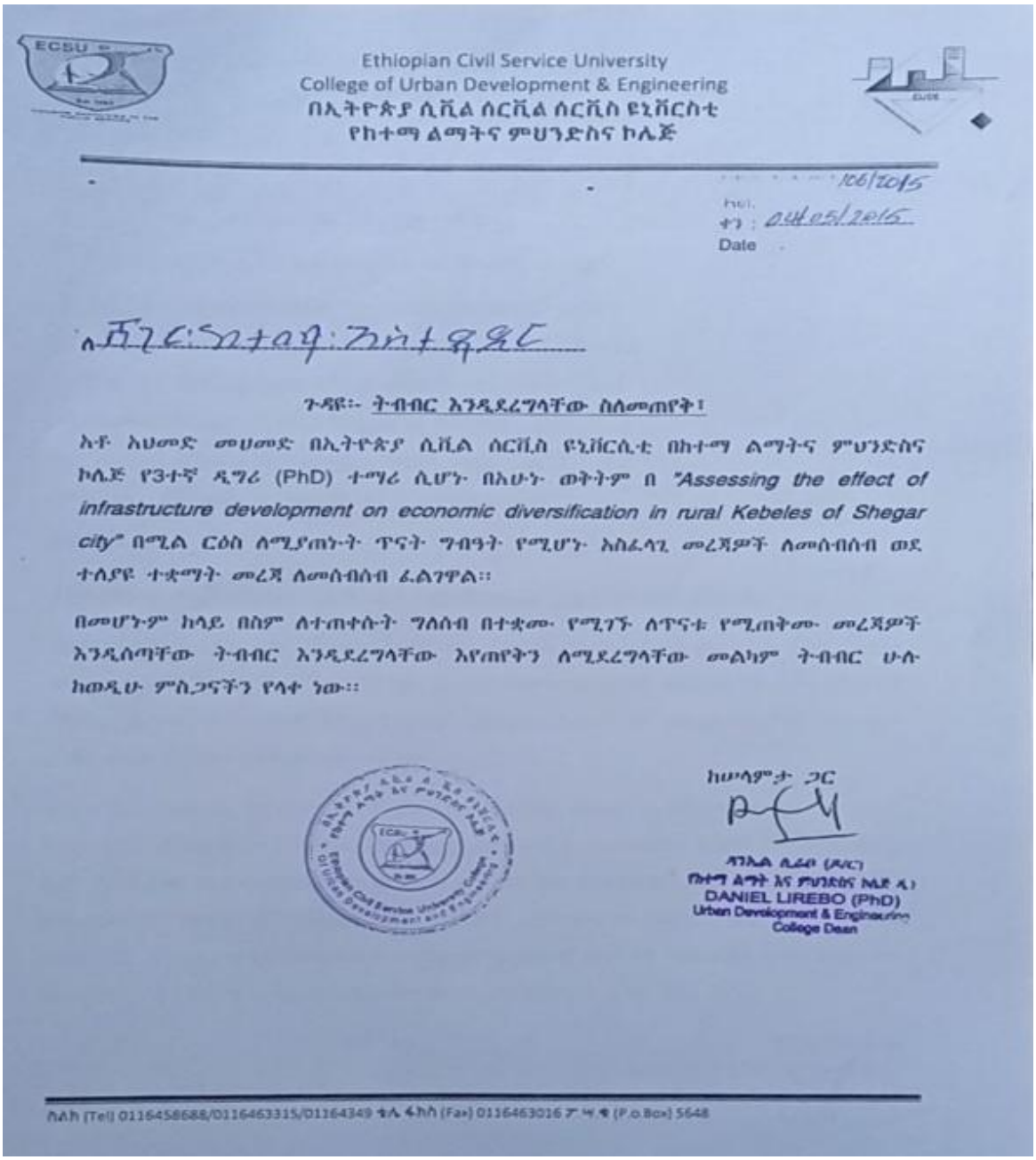
Amsalu Bedemo (phD)
Director, School of Graduate Studies

CC.

- College of Urban Development and Engineering
- College of Leareship and Governance
- Addisu Herbeza
- Ahmed Mohammed
- Diress Ahmed
- Gidissa Tariku
- Endalkachew Getu
- Begonet Dale
- Abaynew Wudu
- Zewudu Teshome

ECSU

Annex 4: Supporting Letters Written from Ethiopian Civil Service University to Shegar City for Data Collection



Ethiopian Civil Service University
College of Urban Development & Engineering
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106/2015
Ref.
ቀን : 04/05/2015
Date

ለ ሸገር፡ ከተማ፡ አስተዳዳር

ጉዳዩ፡- ትብብር እንዲደረግላቸው ስለመጠየቅ፣

አቶ አህመድ መሀመድ በኢትዮጵያ ሲቪል ሰርቪስ ዩኒቨርሲቲ በከተማ ልማትና ምህንድስና ኮሌጅ የ3ተኛ ዲግሪ (PhD) ተማሪ ሲሆኑ በአሁኑ ወቅትም በ *"Assessing the effect of infrastructure development on economic diversification in rural Kebeles of Shegar city"* በሚል ርዕስ ለሚያጠኑት ጥናት ግብዓት የሚሆኑ አስፈላጊ መረጃዎች ለመሰብሰብ ወደ ተለያዩ ተቋማት መረጃ ለመሰብሰብ ፈልገዋል፡፡

በመሆኑም ከላይ በስም ለተጠቀሱት ግለሰብ በተቋሙ የሚገኙ ለጥናቱ የሚጠቅሙ መረጃዎች እንዲሰጣቸው ትብብር እንዲደረግላቸው እየጠየቅን ለሚደረግላቸው መልካም ትብብር ሁሉ ከወዲሁ ምስጋናችን የላቀ ነው፡፡

ከሠላምታ ጋር

ዳንኤል ሊሬቦ (ዶ/ር)
የከተማ ልማት እና ምህንድስና ኮሌጅ ዲ)
DANIEL LIREBO (PhD)
Urban Development & Engineering
College Dean

ስልክ (Tel) 0116458688/0116463315/01164349 ቁሌ ፋክስ (Fax) 0116463016 ፖ ሣ ቁ (P.o.Box) 5648

Translation of Supporting Letters for Data Collection from Amharic to English

Ref. No. 106/2015

Date: 04/05/2015 EC or November 17/2024 GC

For the Shaggy City Administration Office

Where They Are

Issue: It will be a request for support

Mr. Ahmed Mohammed is a PhD student in the College of Urban Development and Construction at the Ethiopian Civil Service University. Currently, they want to visit various institutions to gather the necessary data for their research on the topic of "Infrastructure Development and Its Implications on Economic Diversification in Selected Rural Kebels of Shegar City". Therefore, I would like to ask you to support the above-mentioned Mr. to provide him with the necessary evidence for his research, and I would like to thank you for all your support.

With Best Regards

Daniel Lirebo (PhD)

Dean of the College of Urban Development and Engineering

The following are members of the Dissertation Approval Committee for the Oral Defense

1. Ebrahim Esa - Internal examiner

   Email: ebrahimesas036@gmail.com
   Phone: +251911179369

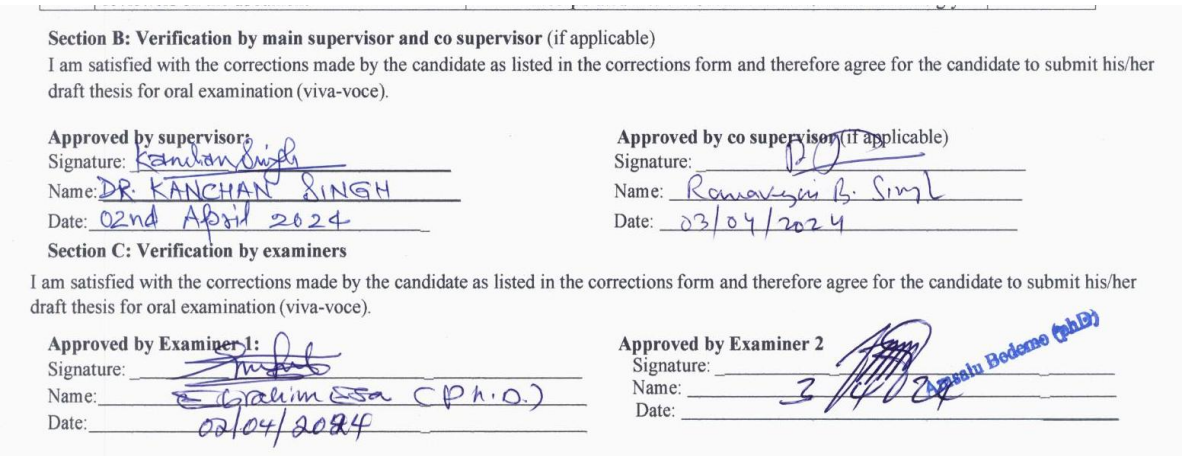
2. Amsalu Bedemo - External examiner

   Email: amsalu72@gmail.com
   Phone: +251911071514
3. Dr. Abebe Abegaz - Head of Department of Urban Planning and Development

   Email: ababagaz@gmail.com

   Phone: +251914719899

Annex 5: Internal and External Examiners who verified the dissertation to submit for Oral Examination



Section B: Verification by main supervisor and co supervisor (if applicable)
I am satisfied with the corrections made by the candidate as listed in the corrections form and therefore agree for the candidate to submit his/her draft thesis for oral examination (viva-voce).

Approved by supervisor:
Signature:
Name: DR. KANCHAN SINGH
Date: 02nd April 2024

Approved by co supervisor (if applicable)
Signature:
Name: Ramavtar B. Singh
Date: 03/04/2024

Section C: Verification by examiners
I am satisfied with the corrections made by the candidate as listed in the corrections form and therefore agree for the candidate to submit his/her draft thesis for oral examination (viva-voce).

Approved by Examiner 1:
Signature:
Name: Ebrahim Esa (Ph.D.)
Date: 02/04/2024

Approved by Examiner 2
Signature:
Name: Amsalu Bedemo (PhD)
Date: 3/4/24

candidate to submit his/her draft thesis for oral examination (viva-voce).

Signature: _____

Name: Degu Bekele (Dr.)

Date: 03/04/2024

Section E: Verification by Department

I hereby confirm the candidate has submitted:

	PhD (3 copies of draft thesis)
	Correction form ✓
	Draft thesis submission form
	Abstract of published and accepted articles
	Ethical clearance (if applicable)

Name Abeke Abegaz (Dr.)

Designation Head of Department of UPD

Signature _____

Date 4/4/2024

(Stamp)



2. <u>Board of Examiners' Approve final Dissertation</u>

The following are members of Board of Examiners approve this Dissertation

Dr. Dagnachew Adugna (Asociate Professor)	Phone: +251911113503	Email: (dagnachew.adugn@eibca.edu.et)
Professor Solomon Mulugeta	Phone: +251911605830	Email: Solomonmwm44 @gmail.com
Professor Samson Kassahun	Phone: +251911203769	Email: S_kassahun@yahoo.com

Annex 6: Board of Examiners' Approval of Final Dissertation

Board of Examiner's Approval Form

ETHIOPIAN CIVIL SERVICE UNIVERSITY

College of Urban Development and Engineering

Department of Urban Planning and Development

Approval of Dissertation/Thesis after Defense

As members of the board of examiners, we examined this dissertation entitled Infrastructure Development and its Implications on Economic Diversification in Selected Peri-urban Areas of Shegar City ' by Ahmed Mohammed Nur. We hereby certify that the thesis/dissertation is accepted for fulfilling the requirements for the award of the degree of "Doctor of Philosophy in Urban and Regional Studies".

Board of Examiners

External examiner 1

Name Prof. Solomon Mulugeta Signature _____ Date 17/06/2024

External examiner 2 (for Dissertation)

Name Dagnachew Adugna (PhD) Signature _____ Date 18/06/24

Internal examiner

Name Prof. Somson Kassahu Signature _____ Date 17/06/2024

Chair person's

Name Tilahun Fekade Signature _____ Date 21/06/2024

v



Corresponding author's and co-authors' names, signature, and Date		
Ahmed Mohammed Nur	Signatur	Date 03/4/2024
DR. KANCHAN SINGH Supervisor's name	Signature	05-04-2024 Date
Dr Ranavijai B Singh Co- supervisor's name	Signature	05/04/2024 Date