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<u>CERTIFICATE OF THE PRINCIPAL SUPERVISOR</u>

This is to certify that the thesis entitled "Exploration of Target Oriented Ionic

Liquid Based Systems as Efficient Catalysts for Synthesis of N-Heterocycles, 5-

Hydroxymethylfurfural and Functionalized Alkenes" submitted to the School of Sciences, Tezpur University in partial fulfillment for the award of the degree of Doctor

of Philosophy in *Chemical Sciences* is a record of research work carried out by Ms.

Pinky Gogoi under my supervision and guidance.

All helps received from various sources have been duly acknowledged.

No part of this thesis has been submitted elsewhere for award of any degree.

(Ruli Borah)

Date:

Professor

Place: Tezpur University

School of Sciences

Department of Chemical Sciences

Tezpur University

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TEZPUR UNIVERSITY

(A Central University by an Act of Parliament)
Napaam, Tezpur-784028

DISTRICT: SONITPUR::ASSAM::INDIA

CERTIFICATE OF THE EXTERNAL EXAMINER AND ODEC

This is	to certify	that the thesis	entitled "Exp	plorai	tion of Tar	get Orie	ented Ionic L	iquid
Based	Systems	as Efficient	Catalysts	for	Synthesis	of N	-Heterocycles	, 5-
Hydro.	xymethylfu	ırfural and Fu	nctionalized	Alke	<i>nes"</i> subm	itted by	Ms. Pinky C	Gogoi
to Tez	pur Unive	rsity in the De	partment of	Chei	mical Scie	nces un	der the Scho	ol of
Scienc	es in parti	al fulfillment fo	or the award	of th	e degree o	f Docto	r of Philosop	hy in
Chemi	ical Scienc	es has been ex	amined by u	s on _			and found	to be
satisfac	ctory.							
The co	ommittee re	ecommends for	the award of	the D	egree of Do	octor of	Philosophy.	
Signat	cure of:							
Principal Supervisor				External Examiner				
Date:					D	ate:		