

**UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI - 110 002.**

**ACCEPTANCE CERTIFICATE FOR RESEARCH PROJECT**

Name TUSHAR JANA and JORPHIN JOSEPH

No.F. MRP-MAJOR-CHEM-2013-37829 dated 28th. October, 2013

Subject: Chemistry

Title of the Project Development of Polymeric Acid-Doped Porous PBI Membranes for Fuel Cell Applications

1. The research project is not being supported by any other funding agency.
2. The terms and conditions related to the grant are acceptable to the Principal Investigator and University/College/Institution.
3. At present, I have no research project approved by UGC and the accounts for the previous project, if any have been settled.
4. The College/University is fit to receive financial assistance from UGC and is included in the list of Section 2(f) & 12 (B) prepared by the UGC.
5. The Principal Investigator is a retired teacher and eligible to receive honorarium as he/she is neither getting any honorarium from any agency nor is he/she gainfully employed anywhere.
6. (i) His/her date of birth is P.I. : 06.01.1975 ; Co-P.I.: 22.05.1979  
(ii) Age P.I.: 41 years; Co-P.I.: 36 years
7. The date of implementation of the project is 01.07.2015

**Principal Investigator**

**Prof. TUSHAR JANA**  
School of Chemistry  
University of Hyderabad  
HYDERABAD, INDIA.

**Registrar/Principal  
University/College**

**COORDINATOR**  
Research Development  
University of Hyderabad  
Hyderabad - 500 046  
Dated: \_\_\_\_\_

**Co-Investigator**

**Dr. JORPHIN JOSEPH**  
ASSISTANT PROFESSOR  
DEPARTMENT OF CHEMISTRY  
SACRED HEART COLLEGE  
THEVARA, KOCHI - 682 013



**Dr. Johnson X Palackappillil**  
Principal  
Sacred Heart College, Thevara  
Cochin - 682 013

UNIVERSITY GRANTS COMMISSION  
MAJOR RESEARCH PROJECT SCHEME

## RECOMMENDATION SHEET

SUBJECT : Chemistry/Polymer Science

Candidate ID

MRP-MAJOR-CHEM-2013-37829

**PART-I**

TITLE OF PROJECT	Development of Polymeric Acid-Doped Porous PBI Membranes for Fuel Cell Applications	
NAME OF PRINCIPAL INVESTIGATOR (P.I)	Tushar Jana	Deptt. of Chemistry/Polymer Science
	Category: <u>GENERAL</u>	
ADDRESS	University of Hyderabad and Sacred Heart College, University of Hyderabad Gachibowli, Hyderabad – 500 046 AND Sacred Heart College Thevara, Kochi – 682 013	
In case of College Teachers, name of affiliating University	University of Hyderabad and Sacred Heart College	
Category of College	Aided/Private/Government/Self Financing / any other (Please Specify)	
Sex and Category (GEN/SC/ST/Minority/PH)	<u>Male/Female</u>	
Status of Principal Investigator	Working/Retired	
(Date of Superannuation to be indicated in case of Retired)		
Name of Co-Investigator	Joseph Joseph	

**PART-II. RECOMMENDATION OF THE EXPERTS :**

<u>Recommended</u> Reasons for recommendation. The allocation may be provided (Refer Part-III)	
<u>Not Recommended</u> Reasons for not recommending the project )	1. 2. 3.

**PART-III. FINANCIAL ALLOCATION RECOMMENDED.**

	(In figures)	(in words)
<b>NON RECURRING:</b>		
(i) Books & Journals	Rs. —	
(ii) Equipment	Rs. 1,00,000/-	
<b>RECURRING:</b>		
(i) Honorarium to Reid. Teacher @ Rs. 18,000/- p.m.	Rs. —	
(ii) Research Personnel (Anyone of the following be provided) Project Fellow (Non-Gate/Non NET) @ Rs. 14,000/- p.m. Project Fellow (Gate/NET/GPAT) @ Rs. 16,000/- p.m.	Rs. — One	Rs. 5,76,000/-
(iii) Chemicals & Glassware	Rs. 2,25,000/-	
(iv) Contingency	Rs. 30,000/-	
(v) Hiring Services	Rs. —	
(vi) Travel/Field Work	Rs. 60,000/-	
(vii) Overhead Charges @ Rs. 10% approved recurring grant (Except Field Work /Travel)	Rs. 83,100/-	
<b>TOTAL</b>	Rs. 10,74,100/-	628,600/- (I in words)

Duration of Project Recommended : **Three years**

NAME & SIGNATURE OF THE EXPERTS COMMITTEE MEMBERS)		Checklist for document	YES/NO
Name in Block letters	Signature	1. Declaration certificate	<u>Y</u>
1. PROF BASHAH	BASHAH	2. Assessment certificate	<u>Y</u>
2. PROF B K DAS	B.K. Das	3. UGC certificate of 2(I) & 12(B)	<u>Y</u>
3. PROF A MAHAPATRA	A. Mahapatra	4. Mandate form	<u>Y</u>

Joseph Joseph