



**Indian Institute of Technology (Indian School of Mines), Dhanbad**  
The Office of Dean, Research & Development

Sanction No and Date: Letter No. CRG/2023/007928 dated 23 February, 2024	<b>IIT (ISM) Project No.:</b> <b>SERB(CRG)(420)/2023-2024/1089/PE</b>	Date: 13.01.2026
--	--	------------------

**JRF position under DST Sponsored Project**

Applications are invited under the sponsored project. The details of the project are as under:

<b>Position</b>	JRF
<b>Number of Position (s)</b>	ONE
<b>Title of The Project</b>	Synthesis of Bio Based Zwitterionic surfactant for use in Enhanced Oil recovery (EOR) at High Reservoir Temperature Conditions
<b>Principal Investigator</b>	Dr. Tarun Kumar Naiya Professor, Department of Petroleum Engineering Indian Institute of Technology (Indian School of Mines), Dhanbad-826 004, Jharkhand. Email: <a href="mailto:tarunnaiya@iitism.ac.in">tarunnaiya@iitism.ac.in</a> , Mobile: 9471191367
<b>Tenure of Project</b>	One and Half Years or end of the Project. It may be converted into regular JRF of the Institute at any time as per IIT (ISM) rule.
<b>Job Description (in maximum of 100 words)</b>	1. Synthesis of bio-based Zwitterionic surfactant from natural resources 2. Studies on application of synthesized Bio Based Zwitterionic surfactant for Enhanced oil recovery at different temperature particularly at high temperature
<b>Essential Qualification</b>	M.E./M.Tech in Petroleum Engineering/Chemical Engineering/M. Sc. In Chemistry; with more than 60% marks or equivalent CGPA/OGPA. <b>Candidate must be GATE/NET qualified.</b>
<b>Desirable Qualification</b>	Experience/Knowledge in the relevant fields.
<b>Age and Relaxation (if any)</b>	The upper age limit will be 28 years at the time of appointment. A relaxation in upper age limit will be given to SC/ST/OBC (Non-Creamy layer)/ Female candidates as per GOI/DST rules.
<b>Fellowship</b>	<b>Rs. 37000/- + Applicable HRA per month</b> for first two years (from start of the project) and may be extended to one more year with fellowship of <b>Rs. 42000/- + Applicable HRA</b> per month on satisfactory performance
<b>Last Date &amp; Time</b>	30 <sup>th</sup> January, 2026, 11.00 pm
<b>Tentative Date of Interview</b>	3 <sup>rd</sup> February, 2026, 10.00 am ( <b>Online</b> )
<b>How to Apply:</b> Interested candidates may send hard copy of their applications with attested copies of all degree and experience certificates by speed post and also through Email to Principal Investigator. Eligible and selected candidates will be called for an interview. <b>Please mention project number on the subject of application.</b> <b>Interview will be in online mode.</b>	

**PI (Dr. Tarun Kumar Naiya)**