# भारतीय प्रौद्योगिकी संस्थान रुड़की

धातुकर्म एवं पदार्थ अभियांत्रिकी विभाग

रुड़की – 247 667, उत्तराखण्ड, भारत

# INDIAN INSTITUTE OF TECHNOLOGY

**DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

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**Dr S. K. NATH**

B.E., M Tech., Ph.D.

(*Metallurgical Engg* )

Professor (Retd)


Dated:20-4-2021.

Letter of Recommendation

It is with enormous joy and satisfaction that I am recommending the candidacy of Debargha Paul for admittance to the doctoral studies at your esteemed institute.

I guided Debargha with his final year M.Tech thesis titled 'To establish the relation of grain boundary cementite in high carbon steel with process parameters'. The thesis was a collaborative work between IIT Roorkee and Tata Steel. I was also Debargha's professor for the Tribology of Engineering Materials course, where he had secured 10 Grade Points.

Moreover, he has passed M.Tech with flying colours by securing a C.G.P.A. of 9.059 ( First Division with Distinction). His rank was 2nd in the departmental batch.

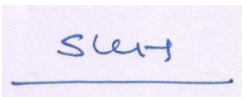
Debargha is an ambitious individual who always seeks to acquire new knowledge. Moreover, he possesses commendable problem solving and critical thinking skills. He employs a peel-off approach to comprehend advanced concepts, gathering the fundamentals strongly and then building up to the top. Persevering and diligent are two perfect adjectives to describe Debargha's attitude. Therefore, it's no surprise that he has shined on the academic front.

He had passed his B.Tech from IIEST, Shibpur with a C.G.P.A. of 8.5( First Class with Honours). During his undergraduate final year project, he had worked on 'Synthesis and Characterization of Ni-Mn-Sn Heusler alloy by mechanical alloying'.

He has done research internships at CSIR-NML, Jamshedpur on the 'study of Magnetic Properties of Low Carbon Steel' by using 'Magstar'-a portable NDE Technique and 'Genesis of Longitudinal Cracks in Slabs' at Steel Melting Shop, JSPL.

I have always been encouraging Debargha to pursue higher education, as I believe that he will contribute to the scientific society and inspire future metallurgists. On a side note, Debargha also possesses valuable working experience in the aerospace industry. As a result, he will be able to grasp new concepts from a practical and industrial standpoint.

Overall, I'm convinced that Debargha is capable of excelling at your doctoral program. Debargha strives for continuous improvements, and always seeks to learn from his mistakes. His passion for materials science combined with novel work ethics makes me confident that he can become a valuable contributor to the department, both as a doctoral student and a research assistant.



(S K Nath)