



1. Name: **Dr. Manish Kumar**

2. Date of Birth: 5<sup>Th</sup>, Jan, 1973

3. Current Position and Address: Sr. Scientist,  
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
i	B.Tech.	1996	NIT, Jamshedpur	Mech. Engg.
ii	M. Tech.	2004	NIT, Jamshedpur	CIDM
iii.	Ph. D.	2014	ISM, Dhanbad	Fuel Engg.

5. Work experience

Designation	Institution/company	From	To	Nature of work
i Site Engineer	BOC (I) Ltd, Jamshedpur	11.09.96	July, 1998	Construction
ii Design Engineer	TRF Ltd., Jamshedpur	05.08.98	July, 2001	Design
iii. Scientist B	CSIR-CIMFR	10.08.2001	10.08.2005	R & D
iv. Scientist C	CSIR-CIMFR	10.08.2005	10.08.2009	R & D
v. Sr. Scientist	CSIR-CIMFR	10.08.2009	Cont...	R & D

6. Area of specialization: Coal Carbonisation, Combustion and Machine Design

7. Honors/Awards received: Nil

8. Fellowships/Scholarships: NIL

9. No. of Research Publications: 11

- Papers in journals: 5
- In conference proceedings: 5
- Invited/key-note addresses: 2
- List of best 05 publications:

1. Study on the Effect of Operating Condition on Pulverised Coal-Fired Furnace Using Computational Fluid Dynamics Commercial Code" was published in Energy and Fuels 2007, Vol. 21, page 3189-3193.
2. Effect of coal washing on fireside deposition and heat transfer performance in pf fired furnaces, International Journal Of Emerging Technology And Advanced Engineering, *Volume 2, No. 3, August 213, pages 71-81.*
3. Combustion Studies on Indian Coal Blends, Applied Thermal Engineering
4. OXY-FUEL COMBUSTION – A REVIEW, International Journal of Emerging Technology and Advanced Engineering, Volume 3, Special Issue: ICERTSD 2013, Feb 2013, An ISO 9001:2008 certified Int. Journal, ISSN 2319-5991

10. Number of Books authored/edited: Nil

11. (a) No. of Patents granted/applied for: Three

(b) Technologies developed, Licensed and/or commercialized: Two (one under progress)

12. Foreign visits: Two

13. Details of Professional memberships: Life member of Indian Institute of Mineral Engineers

Member of BIS formation Committee

14 . Major contributions: ( Max. 150 words)

- a) Pilot Scale Test Rig for Oxy Fuel Combustion Studies
- b) Pilot scale Fluidized Bed Combustion Facility.
- c) Technology for Explosive Proof Tunnel for metal cladding
- d) Design of Non recovery Coke Ovens
- e) Coal Stamping Technology for Drag Type Coke Ovens
- f) Design of Ash reactor for making fertilizer from fly ash.
- g) Design of Boireactor for bio gas generation.
- h) Rectification of 500 ton Tensile Testing Machine

15. Technologies and Products/ Services

- (i) Developed: 3
- (ii) Licensed: 2
- (iii) Commercialized: 2

16. Designs and Prototype Developed:

- a. Pilot Charcoal Making Kiln
- b. Pilot Ash reactor for making fertilizer from fly ash
- c. Bio Reactor for bio gas generation
- d. Pilot Mixture for fine solid mixing

17. Honours and awards won for technological contributions or sociological impact of R&D: Nil



Signature