

1. Name: Dr. Manish Kumar

2. Date of Birth: 5Th, Jan, 1973



3. Current Position and Address: Sr. Scientist,
Kusum Vihar, Kalyani Niwas, Koyla Nagar, Beside Panjab and
Sindh Bank, Pin- 826005
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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