Brief Bio-data

1. Name: SUBHASH CHANDRA MAJI

2. Date of Birth: 21.01.1973

3. Current Position and Address (Include Email ID and Contact Number)

Sr. Technical Officer (1), CSIR-Central Institute of Mining & Fuel Research, Digwadih, Dhanbad,
Email: subhash_1678@rediffmail.com, Mobile: 9835318053

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1.	Diploma in Engineering	1994	West Bengal State Council of Technical Education	Mechanical Engineering
2.	Bachelor of Science	2005	Netaji Subhas Open University, Kolkata	Mathematics
3.	AMIE Sec B Continued	-	Institute of Engineers India, Kolkata	Mechanical Engineering

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Senior Technical Officer	CSIR-Central Institute of Mining & Fuel Research, Digwadih, Dhanbad	31.01.2005	Contd.	Coal & Mineral Beneficiation Studies

6. Work Area(s)/ Specialization:

- Coal & Mineral Beneficiation Studies and its Process for better utilization for the Industries.
- Design & development new technology of Coal washing for fine, small & coarser size particles.
- Design & development new equipment for coal washing
- Sampling of coal from Mines, Railway rakes, Ships, Ponds and heaps for indigenous as well as foreign coal
- Performance evaluation of Coal Washery Industries & its solutions

7. Major contributions: (Max. 100 words):

- Design & developed One TPH “Aero Hydro JIG” for cleaning of medium coal for size range 25-6mm in batch process
- Design & developed “Pre-conditioner Cell” for Coal Flotation unit
- Design & developed “Coal lifter” for the Rotary breaker with covering arrangement
- Design & development of “Lab-scale Continuous Flotation Cell” 40kg per hour with different parameters
- Installation of “variable speed motor driving” for Rotary breaker
- 40 TPH Pilot Plant operation and maintenance as and when required

8. No. of Research Publications:

- **Papers in Journals: 09**
- **In Conference Proceedings: 04**
- **Invited Lectures Delivered: 01**

- **List of best 05 Publications**
  - Studies On The Cleaning Potentialities Of High Ash Indian Non-coking Coals for Meeting the MOEF' Stipulations, Journal of Mines, Metals and Fuels, July 2018
  - A Precursor for Dry Deshaling Of Indian Non Coking Coals, Journal of Mines, Metals and Fuels, July 2018
  - Studies on cleaning potentialities of washing low volatile coking coals of Jharia coalfields, Minetech, Oct-Dec, 2018
  - "Cleaning Potentialities of high ash non-coking coal of SCCL coalfields through washabily investigation" National Journal "Minetech", April-June 2020
  - Product Size Distribution and its Washability Characteristics While Rushing the Coal Through Drop Breakage and Single Roll Crusher, International Seminar on "Mineral Processing Technology" MPT – 2018; at IIT (ISM) Dhanbad, 10-12, October'2018

- **Books/Chapters authored/edited**

9. List of 5 Major Contract R&D Projects:

a. Value Addition from coking coal slimes lying in waste settling ponds of washery – Coal Controller and Development Authority, Kolkata
b. Substitution of imported coal through beneficiation, blending and coke making from indigenous raw materials – SAIL, Chasnalla.
c. Wet tumble test (with Steel cubes for 5 minutes) of samples collected from CV-302 conveyor of existing DMC plant – M/s Adani Enterprises
d. Studies on the cleaning potentialities of Coal at 13 % Ash level for Steel Plant use through detailed washability investigations and technical feasibility led to development of a flow sheet. CCL, Ranchi

10. (a) Name of Patents/Copyrights applied /granted/commercialized:

1. Copyright done for "BOTTOM PULSATED JIG", CR Number-040CR2019, Registration Number-L/88849/2020 Dtd.15/01/2020
2. Patent for "An Improved Process of Beneficiation of Washery Grade VI Coal for Production of Upgraded Coking Coals and Power Coals" Patent No.0137NF2020

(b) Technologies/Products /knowhow/Services developed:

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received:

- Life Member of Indian Institute of Mineral Engineers

12. Societal Contributions

- Quality monitoring of coking and non-coking coals
- Reduction of environmental pollution and recovery of clean coal from slurries lying at the settling ponds of coal washeries
- Save foreign exchanges from imported coal substituting by indigenous raw coal materials to helps metallurgical industries