

### **Bio data of Subhashish Tewari**

1. Name: SUBHASHISH TEWARI

2. Date of Birth: 31/12/1971

3. Current Position and Address: Senior Technical Officer (1)  
Mine Design & Simulation Section  
CSIR-Central Institute of Mining and Fuel Research  
Barwa Road, Dhanbad, PIN- 826 015  
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4. Educational qualifications:

Degree/Diploma/Certificate	Subject(s)	Year	University/ Institute
AMIE (Mining)	Eng. Management, Mining Geology, Exploitation of mineral deposits, Mining machinery, Mine Ventilation, Geomechanics, Advanced Rock Mechanics, Advanced methods of mining, Mine Management and Legislation	2015	The Institution of Engineers (India)
Advance Diploma in Forge Technology	Free Forging, Die Forging, Forging Die Design, Heat treatment	1997	National Institute of Foundry and Forge Technology, Ranchi
Diploma in Mechanical Engineering	Fluid Mechanics, Automobile, machine Tools, Heat Engine, Theory of Machine, Machine Design	1995	State Council of Technical Education, West Bengal

5. Work experience

Designation	Institution/company	From	To	Nature of work
Gr.III (1) JSA	CSIR-CIMFR, Dhanbad	1999	2004	R&D work
Gr.III (2) SSA	CSIR-CIMFR, Dhanbad	2004	2009	R&D work
Gr.III (3) Technical Officer	CSIR-CIMFR, Dhanbad	2009	2014	R&D work
Gr.III (4) Sr. Technical Officer (1)	CSIR-CIMFR, Dhanbad	2014	Cont.	R&D work

6. Area of specialization: Rock Mechanics, Ground Control, Underground Mining Methods and Numerical Modelling.

7. Honors/Awards received: NIL

8. Fellowships/Scholarships: NIL

9. No. of Research Publications:

- Papers in journals: 04 papers
- In conference proceedings: 16 papers
- Invited/key-note addresses: NIL
- List of best 05 publications:

- i) Kushwaha A, Singh S.K, Tewari. S, Sinha .A, "**Empirical approach for designing of support system in mechanized coal pillar mining**" International Journal of Rock Mechanics & Mining Sciences. Volume-47, Number-7, October-2010.
- ii) Kushwaha A, Sharma D. N, Tewari S, Bhattacharjee R. and Sinha, A, "**Evaluation of roadway in-stability in the presence of stress anisotropy in underground coal mines**" 46<sup>th</sup> US Rock Mechanics / Geo-mechanics Symposium held in Chicago, IL, USA, 24-27 June 2012.
- iii) A. Kushwaha, R. Bhattacharjee, S. Tewari and A. Sinha, "**Extraction of Locked-Up Coal in Standing Pillars in Indian Underground Coal Mines**", Journal of Rock Mechanics & Tunnelling Technology (JRMTT) Volume 21 Number 2, July 2015, pp 115-129
- iv) Himunshu V K, Kushwaha A, Tewari S and Sinha A, "**Optimization of support parameters for safe and productive mining in underground metalliferous mines using numerical modelling technique**", Journal of Mines Metals and Fuel (2015)
- v) A. Kushwaha, R. Singh, R. Bhattacharjee and S. Tewari "**Coal pillar extraction in King Seam using CM technology at VK-7 incline, SCCL – Experiences and key success elements**" pp 381-400 at International Conference on Coal and Energy- Technological and future challenges (CETAFC 2013), organised by Department of Mining Engineering, Bengal Engineering and Science University, Shibpur, December 15-17, 2013

10. Number of Books authored/edited: NIL

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

Patent Granted: - 10 Numbers

Patent applied: - 05 Numbers

PATENT GRANTED			
SL. NO.	NAME OF THE ITEM	INVENTOR (S)	NUMBER
1.	A DEVICE USEFUL FOR HOLDING A SENSOR INSIDE A DRILLED HOLE.	DR.S.N.MAITY, S.PRASAD, S. TEWARI	<b>Patent No. IN218334</b>
2.	AN IMPROVED COG USEFUL FOR SUPPORTING UNDERGROUND MINE ROOFS/TUNNELS	DR. S.N. MAITY S.PRASAD S.TEWARI	<b>Patent No. IN242288</b>
3	A DEVICE USEFUL FOR SUPPORTING UNDERGROUND MINE TUNNELS/ROADWAYS.	S.K.KASHYAP S.TEWARI S.PRASAD	<b>Patent No. IN240619</b>
4.	A DEVICE FOR COLLECTING AIR BORNE DUST GENERATED BY MOVING VEHICLE.	S.K.KASHYAP S.TEWARI	<b>Patent No. IN241684</b>

5.	A DEVICE FOR LOADING BLASTED COAL FROM THE WORKING FACE IN CONVENTIONAL LONGWALL MINING.	S.K.KASHYAP S.TEWARI S.PRASAD	<b>Patent No. IN241105</b>
6.	SIMPLE ATTACHMENT DEVICE IN COMMON HAND HELD DRILLING MACHINE USED IN UNDERGROUND MINES TO PREVENT FALL OF COAL DUST ON THE FACE OF WORKERS DURING VERTICAL DRILLING IN THE MINE ROOF.	S.K.KASHYAP S.TEWARI	<b>Patent No. IN266941</b>
7.	AN IMPROVED DEVICE USEFUL FOR MEASURING CONVERGENCE OF THE ROOF IN A MINE FASTER AND MORE ACCURATELY	S.K.KASHYAP S.TEWARI	<b>Patent No. IN251110</b>
8.	AN IMPROVED DESIGN OF SAND STOWING BUNKER FOR HYDRAULIC STOWING OF POND ASH IN COAL MINES	J. K. PANDEY S.K.KASHYAP D. KUMBHAKAR S. TEWARI	<b>Patent No. IN267936</b>
9	A DEVICE FOR MEASURING ROOF CONVERGENCE IN MECHANISED UNDERGROUND COAL MINE WORKINGS	A. KUSHWAHA S.K.KASHYAP S.K.SINGH S.TEWARI R.BHATTACHARJEE	<b>Patent No. IN266305</b>
10	A DEVICE FOR IMPROVED MANUAL GROUTING OF ROOF BOLTS IN MINES	S.K.KASHYAP S.TEWARI A. SINHA	<b>Patent No. IN271486</b>
<b>PATENT FILED IN INDIA</b>			
1.	AN IMPROVED COG USEFUL FOR SUPPORTING UNDERGROUND MINE.	S.K.KASHYAP S.TEWARI S.PRASAD	0010/DEL/2004
2.	MODIFICATION OF HYDRO MECHANICAL STEEL COG	S.K.KASHYAP S.TEWARI S.PRASAD A. SINHA	46/DEL/2004
3	A DEVICE FOR SUPPORTING UNDERGROUND MINE ROOF/TUNNELS	S.K.KASHYAP S.TEWARI S.PRASAD A. SINHA	47/DEL/2004
3.	A DEVICE FOR COLLECT BLASTED COAL FROM AND TRANSFER IT TO THE HAULAGE POINT IN BORD & PILLAR MINING	S.K.KASHYAP S.TEWARI	1731/DEL/2006
4.	A DEVICE FOR SUPPRESSION OF DUST PRODUCED DURING BLASTING OF COAL FACE IN BORD & PILLAR MINING AND ALSO USEFUL TO PREVENT THE SPREADING OF DUST	S.K.KASHYAP S.TEWARI	0864/DEL/2006
5.	A DEVICE FOR MEASURING ROOF CONVERGENCE IN MECHANIZED COAL MINE WORKINGS/TUNNELS/CAVERNS"	A.KUSHWAHA, S.TEWARI, R.BHATTACHARJEE	0174NF2011

(b) Technologies developed, Licensed and/or commercialized: NIL

12. Foreign visits: Nil

13. Details of Professional memberships: THE INSTITUTION OF ENGINEERS (INDIA)  
Associate Member (AM1603038)

14 . Major contributions:

Subhashish Tewari, currently Sr. Technical Officer (1) in “Mine Design & Simulation Section” at CSIR-Central Institute of Mining and Fuel Research, Dhanbad. He has been associated with 4 completed Grant-aid projects and more than 100 industry sponsored projects as a team member. He is actively involved in 'Ground Control in Bord and Pillar Mining' and 'Continuous Miner Technology'. He has ten patents as co patentee and 20 publications to his credit in national / international journals and conference proceedings as co author.

15. Technologies and Products/ Services NIL

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

16. Designs and Prototype Developed: NIL

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

Signature