


RESUME

Name	:	Dr Biswajit Paul	
Date of Birth	:	25th December 1971	
Address	:	Assistant Professor Centre of Mining Environment Dept of Environmental Engineering Indian School of Mines, Dhanbad, 826004 E-mail: dr_bpaul@yahoo.com Phone 0326-2235423 (O); 2235523 (R) Mobile: +91- 9431125959	
Technical Qualification	:	B.Tech (Mining Engg); 1994, ISM, Dhanbad PhD (Mining Environment); 2002, ISM, Dhanbad First Class Mine Manager's Certificate (unrestricted Coal); 2003, DGMS. Recognised Qualified Person for Mine Planning (RQP), Coal & Lignite as per Rule 22(c) of Mineral Concession Rules, 1960 (by Ministry of Coal, Govt. of India). http://www.coal.nic.in/rqp.htm Recognised Qualified Person for Mine Planning (RQP), Metalliferrous Mines as per Rule 22(c) of Mineral Concession Rules, 1960 (by Ministry of Mines, Govt. of India). Qualified Auditor ISO 9001 - 2000.	
Specialization	:	Mining Environment : (Mine Fill Surface & Underground), Land Reclamation. Soil Mechanics, Mine Fire, Environmental Planning for Mines. Coal Mining: Mine Planning, Coal Production, Shaft sinking, Stowing, Bord & Pillar production, support design, Mine Risk assessment and management, Mine legislation and safety, Intellectual Property Management: Drafting/writing patents.	
Work Experiences:			
Teaching & Consultancy		Indian School of Mines University, Dhanbad, 826004 Centre of Mining Environment from 16 th August 2005 – till date- 3yrs + 9 months Teaching: <ol style="list-style-type: none"> 1. Environmental aspects of Mining Industry 2. Industry & Environment 3. Soil Mechanics for Environmental Engineering 4. Environmental Audit & EMS, ISO 14000 5. Environmental Planning for Mining 6. Occupational Health & Safety Consultancy: Coal & Metal Mine Planning, EIA/EMP, Mine Fire etc	
S&T Experience	:	Central Mining Research Institute, Dhanbad as a Scientist. Period: 26/12/2001 – 16/08/2005. (3 years and 8 months approx.) <ol style="list-style-type: none"> 1. R&D in Mining Engineering, Intellectual Property Management. 2. Experience of Coordinating & Filing Patents: 34 Nos. Copyright : 9 Nos. Trademark : 1 No. 3. Training in Task 3, Activity IIB, EMCBTA, World Bank Project and in various IP Mgmt courses by CSIR Hq; 4. Participated in development of Jharkhand State Mineral Policy and compiling draft proposal from CIMFR. 	

INDUSTRIAL EXPERIENCE INDUSTRIAL EXPERIENCE (Contd)	: As a Manager Mining Period 01/07/1994 – 25/12/2001 (7 years and 6 months approx). 1. Coal production (in various u/g coal mines) Shaft Sinking 350m) . 2. Stone Drift (Underground to underground; 14-11 seam) 4 nos each of 200 m inclined length. 3. Shotcreting & Guniting 4. Longwall Mining 5. Depillaring Districts of 14 seam 6. SDL section Stowing with fly-ash/sand in . 7. SDL, Road Header operations 8. Land Reclamation over mining subsided area..		
Total work Experience :- 14Yrs & 9 Months (Approx)	7 yrs 6 months Mining Experience + 7 yrs of scientific & Academic (CIMFR + ISMU) experience i.e., after B.Tech 14 yrs + 9 months (approx) Experience;		
Paper Published/Presented:	23	Patents Filed:	13 (as inventor) 34 (as patent co-ordinator)
PhD Topic	Investigation into utilization of flyash in economic management of mining degraded land with special reference to TISCO lease hold area in Jharia Coalfield.		

List of Consultancy & R&D Projects as CI/PI/ Key Member

- 1. Mine Plan of Trans-Damodar Coal Block of West Bengal Mineral Dev. Corp Ltd (2006) for approval from Ministry of Coal- as CI (Completed).**
- 2. Mine Plan of Tasra OCP of SAIL-ISP (2007) for approval from Ministry of Coal as CI (Ongoing).**
- 3. EIA/EMP of seven mining leases of Tata Steel for Environmental Clearance from Ministry of Environment & Forest as CI (Ongoing).**
- 4. Mining Plan of Rock material at Little Andaman Island, Ministry of Shipping as CI**
- 5. EIA/EMP of Kurasia Mines SECL (Completed).**
- 6. Regional EIA/EMP of Talcher –Angul Region of Orissa (Ongoing).**
- 7. R&D Project in UCIL Bagjata & Bandhurang Mines (Ongoing).**

List of Patents & Inventions

As Inventor (ISM & CSIR Patents)

1	An improved rock bolt for strengthening slopes, rock strata and roofs (ISM, Dhn) - applied
2	A device for loading blasted coal from the working face in conventional longwall mining. CSIR
3	A device for providing centerlines in a continuous manner during underground mine/ tunnels construction. CSIR
4	A device for reinforcing several rock strata in a mine/tunnel. CSIR
5	A temperature and volume controlled oiling device. CSIR
6	A process for making an artificial aquifer over a land damaged by mining activities (Using Fly-ash). CSIR My PhD Thesis Work
7	A movable canopy for immediate front face of mine or tunnel workings along with roof bolting system of support
8	A movable roof support canopy as a safeguard for working under fresh roof in an advancing mine tunnel. CSIR
9	A multi-point anchoring system for grouted-type borehole extensometers using quick or slow setting cement capsules. CSIR
10	A very light permanent type life saving vest for an individual in case of any sort of flood or tsunami like calamities and also for water sports / sea bathing. CSIR.
11	A very light permanent type life saving vest particularly for children in case of any sort of flood or tsunami like calamities and also for water sports / sea bathing. CSIR
12	A very light permanent floater useful for saving life of an individual in case of any sort of flood or tsunami like calamities. CSIR
13	A novel flexible non-rustable quick stabilisation device for sandy sea shore as well as useful for temporary fixing up of safety devices like life saving vests, umbrella tops, etc., also working as artificial barriers like mangroves. CSIR