



The Singareni Collieries Company Limited  
(A Government Company)

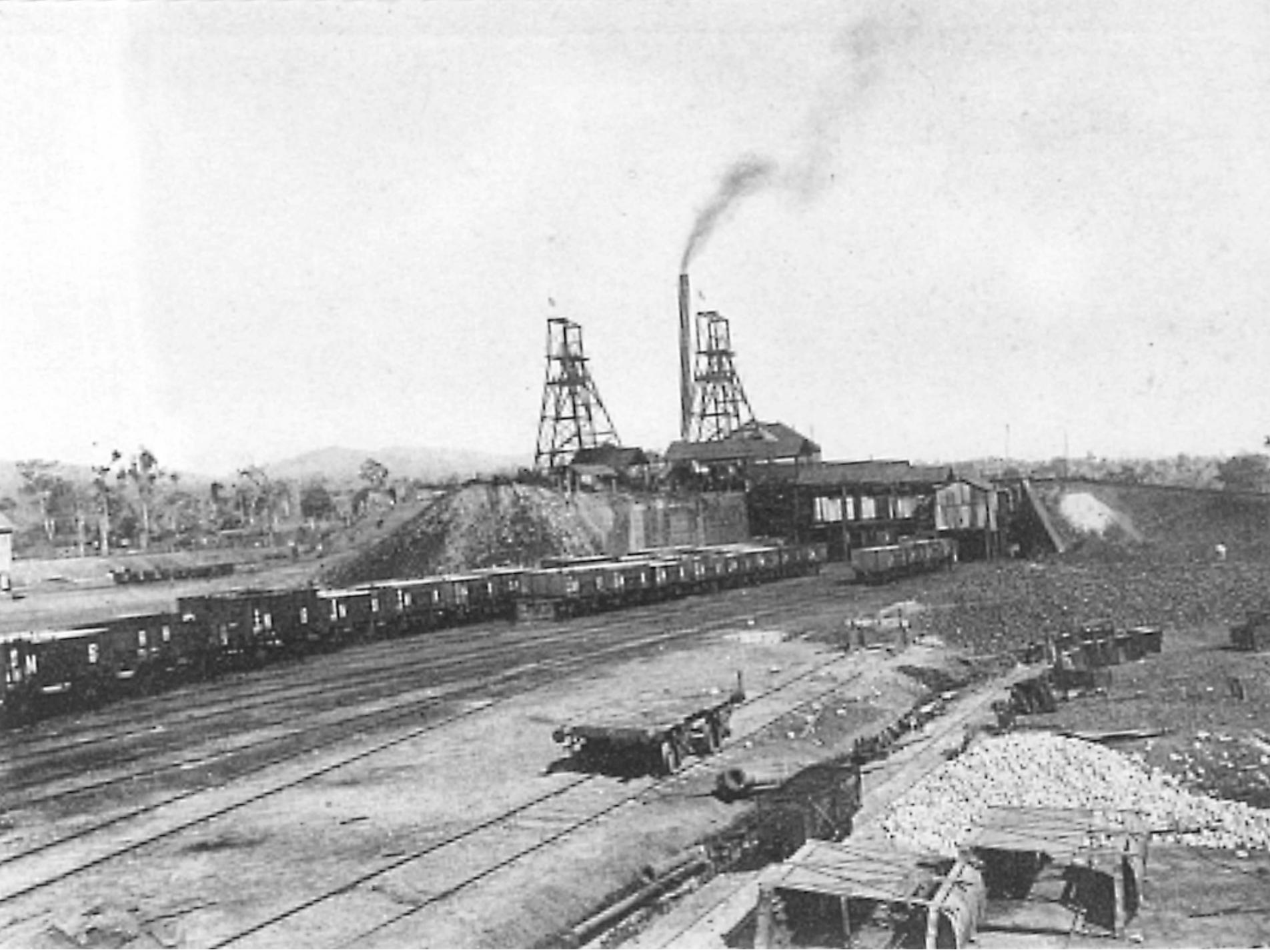
**PRESENTATION  
ON  
SAFETY IN COAL MINES**

Date : 4<sup>th</sup> April, 06  
Time : 5.20 – 5.30  
PM Venue : Taj Palace  
Hotel

S.P. Marg  
New Delhi

# SINGARENI

- Singareni is mining coal from 1889
- Named as Singareni Collieries Co. Ltd. from 23<sup>rd</sup> December, 1920.
- The Nizam of Hyderabad purchased shares of Singareni in 1945 and it became a Government company from 1945.
- From 1960, the Gol participated with 49% shares.



# **This presentation covers**

- **Safety Policy of SCCL**
- **Future Strategies**
- **Important Safety measures under taken**
- **What we are looking forward**

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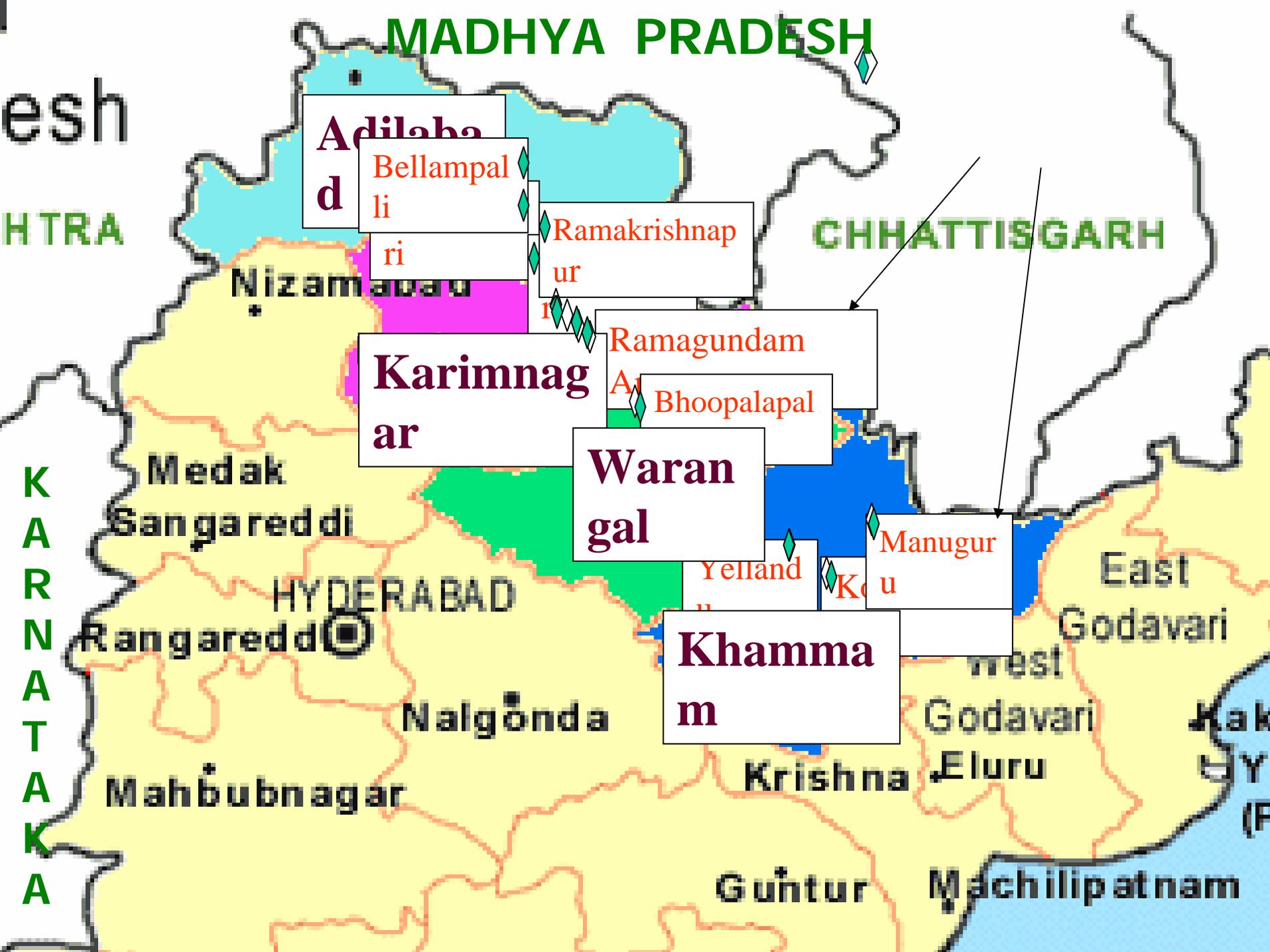
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# SAFETY POLICY OF SCCL

- To ensure that every one in the Organisation is aware of the safe working Methods and follow them in day-to-day work.
- To develop the skills of employees as a skilled worker can only be a safe worker.
- To reduce the accident rates to the barest minimum and to achieve zero accident potential being the ultimate aim.
- Man-riding arrangements to be provided.
- Working environment to be improved.

# GENERAL INFORMATION OF SCCL

➤	UNDERGROUND MINES	48
➤	OPENCAST MINES	11
➤	TOTAL MINES OF SCCL	59

# EMPLOYMENT

## MAN POWER DETAILS

Underground Mines	-	62,789
Opencast Mines	-	8,149
Departments	-	15,442
Total SCCL	-	86,380

# Death Rate per M.T. of Coal

YEAR	SCCL	CIL
2002	0.68	0.24
2003	1.36	0.21
2004	0.41	0.22
2005 (Jan-Jun)	0.50	0.21

# Rate of Fatalities for 3 Lakh Manshifts

<b>YEAR</b>	<b>SCCL</b>	<b>CIL</b>
2002	0.31	0.19
2003	0.65	0.18
2004	0.20	0.20
2005 (Jan-Jun)	0.27	0.22

# **Important Safety measures under taken by SCCL in the last 2 years**

## **Policy decision has been taken to introduce semi-mechanization.**

- Accordingly 95 SDLs and 37 LHDs are introduced.
- Bulk introduction of mechanical Roof Bolter ie. 26 procured, 198 under procurement.

# 2 years & 5 years Projection Plans for all UG mines.

- Dy.DGMS(SZ), Hyd took the initiative and positively suggested to prepare 2yrs/5 yrs projection plans for all UG mines.
- Plans included related developmental activities, Technology and sequence of applying permissions etc.

# Contd..

- **Any changes in the plan under inevitable circumstances can be considered only by a committee constituted by the Sr. Officers to avoid short-cut methods.**

# Contd..

## Introduction of Man Riding System

- 27 Man Riding systems were commissioned.
- 8 Man Riding systems are under erection.
- 3 Man Riding systems are under procurement.

# Contd..

## Company has upgraded Rescue Services by procuring

- BG-IV breathing apparatus, nomex fire suits, hydraulic rescue tools etc.
- Fire tender, gas chromatographs are under procurement at a cost of 26 crores.
- SCCL has become member of IMRB in 2003 and sent a rescue team to Poland International Rescue Competitions in June '04.

# Risk Assessment & Management Plan

- Risk Management plans are required to be prepared for 7 Accident prone mines as per DGMS.
- SCCL has prepared Risk Management Plan for 52 UG mines out of 58.
- For the balance 6 mines the Risk Management Plans will be completed within one month.

# STATUS AT SMG 1 BEFORE RMP IMPLEMENTATION

Year	F	S	R	Pro- duct. Lkhs	OMS
1997	4	6			
1998	1	3	266	2.12	0.56
1999	2	2	211	2.41	0.73
2000	4/5	2	130	2.77	0.78

# STATUS OF SMG 1 AFTER RMP IMPLEMENTATION

YEAR	F	S	R	Produ- ction Lkhs	OMS
2001	0	0	103	2.39	0.77
2002	0	1	68	2.47	0.92
2003	0	0	12	2.81	1.08
2004	3	2	25	2.44	1.00
2005	0	9	18	2.31	1.10

# System Audit of the Mines.

- Making Workmen Inspectors for more focussed inspections with the help of checklists.
- Check lists were prepared and implemented for

**Shorfiring**  
**Supports**  
**Face Machinery**  
**Haulage.**

# Monitoring of Fire prone parameters through Software

The very purpose is

- To identify the Fire prone situations at early stage.
- Data of every panel will be entered in the Web.
- Can be monitored from mine level to Corporate level.

# Future strategies of SCCL

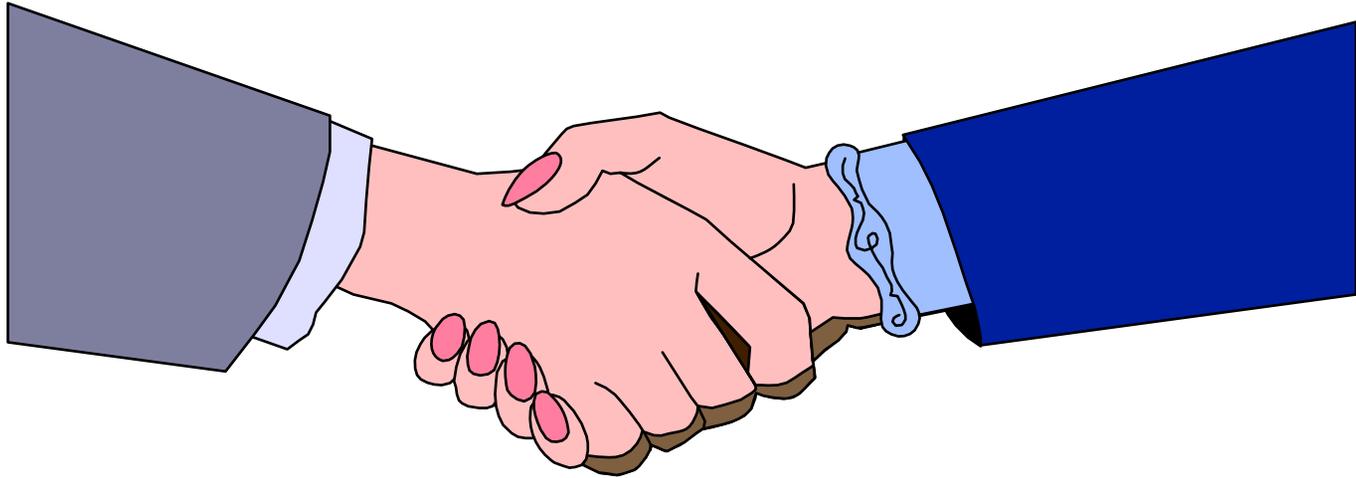
- **Extraction of pillars by LW method by involving DGMS/Scientific Institutions.**
- **Introduction of bulk production technology with eqpt. Like Continuous Miner.**
- **Introduction of Diesel powered ram cars and LHDs.**

# Contd..

- **14 UG mines to become Hand Section free by the year 2006.**
- **14 UG mines to have semi-mechanization and Hand Section by the year 2006.**

# What we are looking forward

- Monitoring of mine environment in LW, Continuous Miner, BG panels.
- Online monitoring of Health of chock shields.
- Air conditioning of UG mines of deep-seated.
- UG communication system.
- PEDs.
- GPR - to ascertain barrier thickness.



**Some times my hand will be hard  
some times your hand will be hard  
still**

**Shake hand has to go....**