The Singareni Collieries Company Limited
(A Government Company)

PRESENTATION
ON
SAFETY IN COAL MINES

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

S.P. Marg
New Delhi
Singareni is mining coal from 1889

Named as Singareni Collieries Co. Ltd. from 23rd December, 1920.

The Nizam of Hyderabad purchased shares of Singareni in 1945 and it became a Government company from 1945.

From 1960, the GoI participated with 49% shares.
This presentation covers

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

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SCCL</th>
<th>CIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>0.68</td>
<td>0.24</td>
</tr>
<tr>
<td>2003</td>
<td>1.36</td>
<td>0.21</td>
</tr>
<tr>
<td>2004</td>
<td>0.41</td>
<td>0.22</td>
</tr>
<tr>
<td>2005 (Jan-Jun)</td>
<td>0.50</td>
<td>0.21</td>
</tr>
<tr>
<td>YEAR</td>
<td>SCCL</td>
<td>CIL</td>
</tr>
<tr>
<td>---------</td>
<td>-------</td>
<td>------</td>
</tr>
<tr>
<td>2002</td>
<td>0.31</td>
<td>0.19</td>
</tr>
<tr>
<td>2003</td>
<td>0.65</td>
<td>0.18</td>
</tr>
<tr>
<td>2004</td>
<td>0.20</td>
<td>0.20</td>
</tr>
<tr>
<td>2005</td>
<td>0.27</td>
<td>0.22</td>
</tr>
<tr>
<td>(Jan-Jun)</td>
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</table>
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.
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

<table>
<thead>
<tr>
<th>Year</th>
<th>F</th>
<th>S</th>
<th>R</th>
<th>Pro-duct.</th>
<th>OMS Lkhs</th>
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<tr>
<td>1997</td>
<td>4</td>
<td>6</td>
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<td></td>
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<tr>
<td>1998</td>
<td>1</td>
<td>3</td>
<td>266</td>
<td>2.12</td>
<td>0.56</td>
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<td>1999</td>
<td>2</td>
<td>2</td>
<td>211</td>
<td>2.41</td>
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<td>2000</td>
<td>4/5</td>
<td>2</td>
<td>130</td>
<td>2.77</td>
<td>0.78</td>
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</table>
## STATUS OF SMG 1 AFTER RMP IMPLEMENTATION

<table>
<thead>
<tr>
<th>YEAR</th>
<th>F</th>
<th>S</th>
<th>R</th>
<th>Production</th>
<th>OMS Lkhs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>0</td>
<td>0</td>
<td>103</td>
<td>2.39</td>
<td>0.77</td>
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<tr>
<td>2002</td>
<td>0</td>
<td>1</td>
<td>68</td>
<td>2.47</td>
<td>0.92</td>
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<tr>
<td>2003</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>2.81</td>
<td>1.08</td>
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<tr>
<td>2004</td>
<td>3</td>
<td>2</td>
<td>25</td>
<td>2.44</td>
<td>1.00</td>
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<tr>
<td>2005</td>
<td>0</td>
<td>9</td>
<td>18</td>
<td>2.31</td>
<td>1.10</td>
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</table>
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....