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## List of Abbreviations

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<i>AWTT</i>	Auto – warning Tell-tale
<i>CIL</i>	Coal India Limited
<i>CM</i>	Continuous Miner
<i>CMR</i>	Coal Mine Regulations
<i>CMRI</i>	Central Mining Research Institute
<i>DHTT</i>	Dual Height Tell–tale
<i>FISH</i>	FLAC – ISH (language of FLAC)
<i>FLAC<sup>3D</sup></i>	Fast Lagrangian Analysis of Continua in three dimension
<i>FOS</i>	Factor of Safety
<i>GSI</i>	Geological Strength Index
<i>LTD</i>	Load Transfer Distance
<i>MOC</i>	Ministry of coal
<i>RBE</i>	Roof Bolt Extensometer
<i>RMR</i>	Rock Mass Rating
<i>RQD</i>	Rock Quality Designation
<i>RTT</i>	Rotary Tell–tale
<i>SCCL</i>	Singareni Collieries Company Limited
<i>SECL</i>	South Eastern Coalfields Limited
<i>SF</i>	Strength Factor
<i>SR</i>	Stress Ratio
<i>UCS</i>	Uniaxial Compressive Strength
<i>US</i>	United States

## List of Symbols

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$I$	Cavability Index
$\sigma$	Uniaxial Compressive Strength
$l$	Average length of core
$t$	Thickness of strong bed
$S_p$	Strength of pillar
$w$	Width of pillar
$h$	Height of pillar
$S_{cube}$	Strength of cubical pillar
$D$	Depth of cover
$\circ$	Degree
$c$	Cohesion
$\phi$	Friction angle
$D_{max}$	Maximum depth of cover
$SR_W$	Stress ratio of working pillar
$SR_B$	Stress ratio of barrier pillar
$FOS_{Development}$	Factor of safety of pillar during development
$L$	Load-bearing capacity of remnant
$A$	Area of remnant
$L_P$	Load-bearing capacity of previously extracted pillar
$L_W$	Load-bearing capacity of working pillar
$SF_W$	Strength Factor of working pillar/remnant
$SF_P$	Strength Factor of previously extracted pillar/remnant

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