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ABBREVIATIONS AND SYMBOLS

SAHARA	Stability Analysis and HAZard RAting
OB	Overburden
Mm ³	Million cubic meters
Mte	Million tonnes
LEM	Limit Equilibrium Method
SRM	Strength Reduction Method
FEM	Finite Element Method
BEM	Boundary Element Method
FDM	Finite Difference Method
DEM	Discrete Element Method
BCMWRPRC	British Columbia Mine Waste Rock Pile Research Committee
DSR	Dump Stability Rating
m	meter
°	degree
WSRHC	Waste Dump and Stockpile Stability Rating and Hazard Classification
WSR	Waste Dump and Stockpile Stability Rating
WHCs	Waste Dump and Stockpile Hazard Classes
RES	Rock Engineering System
VI	Vulnerability Index
FoS	Factor of Safety
DSR	Dump Slope Rating
kPa	Kilo Pascale

MESA	US Mine Enforcement and Safety Administration
CANMET	Canadian Centre for Mining and Metallurgy
USBM	US Bureau of Mines
PoF	Probability of Failure
XDIS	Maximum Horizontal Displacement
SSI	Maximum Shear Strain Increment
kg/m ³	Kilogram per Cubic Meter
R ²	Coefficient of Determination
MPa	Mega Pascale
β	Reliability Index
CIL	Coal India Limited
SECL	South Eastern Coalfields Limited
NCL	Northern Coalfields Limited
FLAC	Fast Lagrangian Analysis of Continua
2D	Two Dimension
SD	Standard Deviation
%	Percentage
T	Total Dump Height
H	Bench Height
A	Bench Slope Angle
W	Bench Width
C	Cohesion
φ	Friction Angle
ρ	Density
mm	Millimeter

$\gamma(d)$	Dry Density
$\gamma(s)$	Saturated Density
G	Specific Gravity
e	Void Ratio
n	Porosity
$\gamma(w)$	Water Density
PERT	Program Evaluation and Review Technique
sq. km	Square Kilometer
MTPA	Mte Per Annum
max	Maximum