

GLOSSARY OF ABBREVIATIONS

AAP	Advance Action Plan
ABT	Availability Based Tariff system
ACM	Air cycle machine
AGTP	Agartala Gas Turbine Project
AOD	Accessories Overhaul Division
ASEB	Assam State Electricity Board
B & S	Bassein & Satellite
Bas	Business Associates
BCP	Booster Compressor Pumps
BDPS	Bureau of Data Processing Systems
BF	Blast Furnace
BHRP	Bhandaridah Refractories Plant
BOF	Basic Oxygen Furnace
BOSP	Bokaro Steel Plant
BP	Booster Pumps
BRP	Bhilai Refractories Plant
BSD	Business Systems Division
BSP	Bhilai Steel Plant
CAAT	Computer Aided Audit Technique
CCEA	Cabinet Committee on Economic Affairs
CEA	Central Electricity Authority
CED	Computer Education Division
CERC	Central Electricity Regulatory Commission
CHP	Coal Handling Plant
CIG	Coal Import Group
CIL	Coal India Limited
CMPDIL	Central Mine Planning and Design Institute Limited
COPU	Committee on Public Undertakings
CP	Condensate Pumps
DGCA	Director General Civil Aviation
DHEP	Doyang Hydro Electric Project
DM	De-mineralised
DPR	Detailed Project Report
DSP	Durgapur Steel Plant
DWDM	Dense Wavelength Division Multiplexing
EJC	Empowered Joint Committee
EMC	Equipment Management Cell
EMP	Environment Management Plan

EOH	Equivalent Operating Hours
EOU	Export Oriented Unit
ER	Eastern Region
ESC	Empowered Sub Committee
FSNL	Full Speed No Load
GBPS	Giga Bytes Per Second
GCV	Gross Calorific Value
GREP	Gas Rehabilitation and Expansion Project
GTG	Gas Turbine Generator
HBJ	Hazira-Bijaipur-Jagdishpur
HDPE	High Density Poly-Ethylene
HEMM	Heavy Earth Moving Machinery
HGPI	Hot Gas Path Inspection
HP	Hoarse Power
HPI	Hot Parts Inspection
ICE	Information Consolidation for Efficiency
ICT	Inter-Connecting Transformer
IED	Industrial Engineering Department
IFICROP	India Firebricks and Insulation Co. Refractories Plant
IIE	India Industrial Enterprises
IMPETUS	Implementing Maintenance & Procurement Efforts Through Upgraded System
ISPs	Integrated Steel Plants
Kcal	Kilo Calorie
KV	Kilo Volt
Kwh	Kilowatt Hours 1 Unit.
LC	Letter of Credit
LDO	Light Diesel Oil
LOI	Letter of Intent
LSPs	Local Service Providers
LTGP	Long Term Gas Production
LTOP	Long Term Oil Production
MBPS	Mega Bytes Per Second
MCB	Magnesia Carbon Bricks
MCMD	Million Cubic Meters Per Day
MGO	Minimum Guaranteed Off-Take
MH	Mumbai High
MIP	Main (Water) Injection Pump
MIS	Management Information System
MMSCMD	Million Metric Standard Cubic Meter per day
MOA	Memorandum of Agreement

MOLP/CTP	Main Oil Pump/Crude Transfer Pump
MOU	Memorandum of Understanding
MT	Million Tonnes
MTY	Million Tonne per Year
MU	Million Unit
MW	Mega Watt
NCWA	National Coal Wage Agreement
NEC	North Eastern Council
NER	North Eastern Region
NEREB	North Eastern Regional Electricity Board
NERLDC	North Eastern Regional Load Dispatch Centre
NH	Neelam & Heera
NOX	Nitrogen Oxide
O&M	Operation & Maintenance
OB	Over Burden
OCC	Operation Co-ordination Committee
OCP	Open Cast Projects
OEM	Original Equipment Manufacturer
OFC	Optical Fibre Cable
OMS	Output Per Man Shift
PGC	Process Gas Compressor
PGP	Producer Gas Plant
PLF	Plant Load Factor
PMS	Preventive Maintenance Schedule
POL	Petrol Oil and Lubricant
PPA	Power Purchase Agreement
PPD	Production Planning Division
PR	Project Report
R&M	Renovation and Modernisation
RCE	Revised Cost Estimate
RHEP	Ranganadi Hydro–Electric Power Project
RISL	Reliance Silicones (India) Pvt. Limited
ROU	Right of Use
RRRP	Ranchi Road Refractories Plant
RSP	Rourkela Steel Plant
SARS	Severe Acute Respiratory Syndrome
SBU	Strategic Business Unit
SG	Slide Gate
SMS	Steel Melting Shop
SRC	Shinagawa Refractories Company
STMs	Synchronous Transport Modules

STU	Software Training Unit
SWLP	Sea Water Lift Pump
TAP	Turnaround Plan
TCC	Technical Co-ordination Committee
TCS	Tata Consultancy Services
TEV	Techno-economic Viability
TGBPP	Tripura Gas Based Power Project
TML	Tata Metalliks Limited
UG	Under Ground
UHV	Useful Heat Value
UI	Unscheduled Interchange
UTLS	Unit Train Load System

GLOSSARY OF TECHNICAL TERMS

Term	Description
AC	Alternating Current (AC) is electric current that alternates between a positive maximum value and a negative maximum value at a characteristic frequency, usually 50 or 60 cycles per second (Hertz).
Auxiliary energy consumption (AUX)	In relation to any period, means the ratio, expressed as a percentage of energy in kwh generated at Generator terminals minus energy in kwh delivered at the Generating Station Switchyard to gross energy in kwh generated at the Generator terminals.
Availability	Availability of thermal generating station for any period shall be the percentage ratio of average Sent Out Capability (SOC) for all the time blocks during that period and rated SOC of the generating station
Backfill	Material used to replace soil and earth removed during mining operations, and generally to fill a mined out slope
Base load	The minimum amount of electric power delivered or required over a given period of time at a steady rate.
Base load Capacity	The generating equipment normally operated to serve loads on a round-the-clock basis.
Bus Bars	Bus Bars are rectangular copper or aluminium bars that connect the output of the generator set circuit breakers to the transfer switches, circuit breakers, or fusible switches that transfer power to the load.
Combined Cycle	An electric generating technology in which electricity is produced from otherwise lost waste heat exiting from one or more gas (combustion) turbines. The exiting heat is routed to a conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of electricity. This process increases the efficiency of the electric generating unit.
Current	Current is the flow of electric charge. Its unit of measure is the ampere.
Cycle	A cycle is one complete reversal of an alternating current or voltage from zero to a positive maximum to zero again and then from zero to a negative maximum to zero again. The number of cycles per second is the frequency.
Declared Capacity (DC)	In relation to any period or time block means the capability of the generating Station to deliver ex-bus Mwh declared by the generating company. (The DC shall not exceed installed capacity).
Frequency	Frequency is the number of complete cycles per unit of time of

	any periodically varying quantity, such as alternating voltage or current. It is usually expressed as (Hz) Hertz or CPS (cycles per second).
FSNL	Full Speed No Load – During FSNL condition no electricity is generated but gas is consumed.
Grade	The relative quality or percentage of metal content
Gross Calorific Value (GCV)	The heat produced in KCal by complete combustion of one kg. of solid fuel or liquid fuel or one standard cubic meter of gaseous fuel, as the case may be.
Gross Station Heat Rate (GSHR)	The heat energy in KCal input required to generate one KWh of electric energy at Generator Terminals.
Indicated reserve	A mineral resource sampled by drill holes, underground openings, or other sampling procedures, at locations too widely spaced to ensure continuity, but close enough to give a reasonable indication of continuity and where geo-scientific data are known with a reasonable level of reliability.
Inferred reserve	An estimate inferred from geo-scientific evidence, drill holes, underground opening or other sampling procedures, and before testing and sampling information is sufficient to allow a more reliable and systematic estimation.
Installed Capacity (IC)	In relation to a Generating Station means Rated Capacity or the contracted capacity as the case may be.
Least Cost Merit Order	State power utilities work out their demand for power from the generating stations on the basis of least cost merit order.
Mineable Reserves	Reserves which can be technically extracted after providing for reserves blocked up due to surface constraints viz township villages, etc. and sub surface constraints i.e. abandoned water logged working, mine fires etc.
Operation and Maintenance (O&M) Expenses	In relation to a period means the expenditure incurred in operation and maintenance of the generating station including manpower, spares, consumables, insurance and overheads.
Outage	The period during which a generating unit, transmission line, or other facility is out of service.
Overburden	Wastes sitting above mineral body
Plant Load Factor	In relation to a given period, is expressed as the percentage of total Kwh generated at generator terminals to Installed Capacity, expressed in kilowatts (Kw) multiplied by number of hours in that period.
Proved reserve	Those measured mineral resources of which detailed technical and economic studies have demonstrated that extraction can be justified at the time of determination and under specific conditions.

Scheduled Generation	Means schedule of generation (in MW) ex-bus given by the Regional Load Despatch Centre to a generating station for any period or time block.
Sent Out Capability (SOC)	Sent Out Capability of a Generating Station means the capability to deliver ex-bus Mwh based on which 'availability' shall be worked out.
Stripping ratio	The ratio of overburden and waste to ore/mineral in an open pit/cast operation.
Unschedule Interchange (UI)	UI for Generating Station shall be equal to its actual generation minus its scheduled generation. UI for beneficiary shall be equal to its total actual drawal minus its total scheduled drawal.