



PH-EL
PRIME HITECH ENGINEERING LIMITED
www.prime-phel.com



DRILLING RIGS

PH-EL brings with its experience and engineering excellence a wide range of **Water well, Blast hole, Core drilling, Exploration & Pilling drilling** solutions

email: phelrigs@prime-phel.com

LOOKING BEYOND TOMORROW

Our Products & Services

◀ PHEL PDTHR-450 Water Well Drilling Rig

Technical Specification



Drill Hole Diameter	Dia 8" DTH/12 1/4" Rotary
Depth	450 Meters/600 mtr. (Opt.)
Carrier	Man truck CLA 26.280 - 6X4
Air Compressor	1200 cfm @ 350 psi
Mud Pump	765 lpm @ 16 Bar
Application	Water Well
Optional	Skid / Two truck version

▶ PHEL PDTHR-300

Technical Specification Water Well Drilling Rig

Drill Hole Diameter	Dia 8 1/2 "
Depth	300 Meters
Carrier	Ashok Leyland 6x4/6x2/4x2
Air Compressor	1100 cfm @ 300 psi
Mud Pump	765 lpm @ 16 Bar
Application	Water Well
Optional	Skid Mounted



◀ PHEL PDTHR-160 Water Well Drilling Rig

Technical Specification



Drill Hole Diameter	Dia 8" DTH/10 5/8" Rotary
Depth	160 Meters
Carrier	Ashok Leyland 4 x 2
Air Compressor	600 cfm @ 200psi
Mud Pump	500 lpm @ 10 Bar
Application	Water Well
Optional	Skid Mounted

Our Products & Services

◀ PHEL PTBW-150 Water Well Drilling Rig

Technical Specification



Drill Hole Diameter	Dia 6" DTH/8 1/2" Rotary
Depth	150 Meters
Carrier	New Holland 75hp 4WD
Air Compressor	600 cfm @ 200psi
Mud Pump	500 lpm @ 10 Bar
Special Features	3 Rod Carousel
Application	Water Well
Optional	Blast hole drilling

PHEL PTRW-100 ▶ Water Well Drilling Rig

Technical Specification

Drill Hole Diameter	Dia 4 1/2" / 6 1/2"
Depth	100 Meters
Carrier	Self-Driven Trolley
Air Compressor	450 cfm @ 150psi
Mud Pump	500 lpm @ 10 Bar
Application	Water Well
Optional	Blast hole/Earthing holes/Piling



◀ PHEL PDTHR-80 Water Well Drilling Rig

Technical Specification



Hole Diameter	Dia 4 1/2" / 6 1/2"
Depth	80 Meters
Carrier	Trolley
Air Compressor	450 cfm @ 150psi
Mud Pump	500 lpm @ 10 Bar
Application	Water Well
Optional	Blast hole drilling

Our Products & Services



◀ PHEL PCDR-1000 Core Drilling Rig

Technical Specification

NQ/NW Core Drilling	Up to 1000m (3330 feet)
HQ/HW Core Drilling	Up to 600 m (2000 feet)
Angle Drilling	45 Deg
Carrier	Crawler / (Optional-Truck)
Optional	Truck / Skid

PHEL PPR-42-20 ▶ Piling Drilling Rig

Technical Specification

Drill Hole Diameter	Dia 42 ”
Depth	20 Meters
Carrier	Truck / Crawler
Air Compressor	1200cfm @ 350psi (02 Nos)
Application	Piling Drilling Rig
Optional	Crawler Mounted



◀ PHEL PBHD-30 Blast Hole Drilling Rig

Technical Specification

Drill Hole Diameter	Dia 4 1/2”
Depth	30 Meters
Carrier	Crawler
Air Compressor	450cfm @ 150psi
Application	Blast Hole Drilling Rig (Quarry drilling)



Other portable drilling rigs



◀ **PHEL PWD-40**
Water Well Drilling Rig

Technical Specification

Hole Diameter	Dia 4 "
Depth	40 Meters
Carrier	3 Wheel mounted on Wagon
Air Compressor	450 cfm @ 150 psi (Trolley Mounted)
Application	Water Well

PHEL PSD-10 ▶
Water Well Drilling Rig



Technical Specification

Hole Diameter	Dia 3 "
Depth	10 Meters
Carrier	Skid Mounted
Air Compressor	450 cfm @ 150psi Trolley Mounted
Application	Water Well

Drilling Rigs Accessories



◀ **Rock Roller Bits**
Milled Tooth & Tungsten Carbide Material
zas per API Standard.

Available Ranges:

Tungsten Carbide Bits	3 7/8" - 17 1/4" (98.4mm-.438 mm)
Milled Tooth	3 7/8" - 17 1/4" (98.4mm-438 mm)
Standard	As per IADC Codes

DTH Hammers ▶

Various Type of Hammers as per the API Standards

Available Ranges

Ranges	12"
Type	Valve / valve less



◀ **DTH Button Bits**

- ▶ PHEL Button Bits are available to withstand High pressures
- ▶ PHEL Button Bits are designed for all standard manufacture DTH Hammers
- ▶ Carbide has been carefully designed to minimize the risk of button loss and button failure

Available Range

Range	3" - 20"
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Drill Pipes ▶

Friction Welded Induction hardened drill pipes for more life



Available Ranges

Sizes	3", 3 1/2", 4 1/2" & 5 1/2"
Length	5', 10', 13', 15', 20' & 30'



Core Bits ◀

Available Ranges

Bit Size	Core Diameter (mm)	Hole Diameter (mm)
AQ	27	48
BQ	36.5	60
NQ	47.6	75.7
HQ	63.5	96
PQ	84	122.6

Pilling Rig Accessories ▶



Available Ranges

Cluster Hammers	12"/16"/20"/24"/32"/40"
Auger Drill Bits	12"/16"/20"/24"/32"/40"



Drilling Rigs supporting equipments



◀ Combination Tanker

Technical Specification

Capacity	10000 litres
Combination	Water & Diesel
Carrier	Truck / Trolley
Discharge	24 Volts Gear Pump
Water Pump	Centrifugal Pump set
Diesel	Diesel Dispensing Unit

Pump Testing Equipment ▶

Technical Specification

Testing Depth	Up to 200 meters
Carrier	Ashok Leyland 6/4
Power	20 kVA
Testing Parameters	Density, Viscosity, Acid & Base



◀ COMPRESSOR MOUNTING

Technical Specification

Capacity	1000 feet
Air Flow	1100 cfm
Air Pressure	300 - 350 psi
Compressor Make	ELGI / ATLAS COPCO
Carrier	Ashok Leyland

GENSET MOUNTING ▶

Technical Specification

Rating	5 kVA / 15 kVA / 20 kVA
Genset Make	Universal
Carrier	Trolley
Illusion	1 Acre
Optional	50 kVA/100 kVA/500 kVA /1000 kVA (Trolley Mounted)



An ISO 9001 : 2008 Certified Company



World Class Hydraulic System

Fitted with advanced load control Techniques

Advanced operational capability

Minimum Power Consumption

Ergonomically Designed Control Panel

Efficient Heat Dissipation

Surface Preparation to International Standard SA 2.5

World Standard UV-Paints (Epoxy primer, Polyurethane)

State of the art Manufacturing Facilities



◀ CNC Hi-Definition Plasma & Gas Cutting

Technical Specification

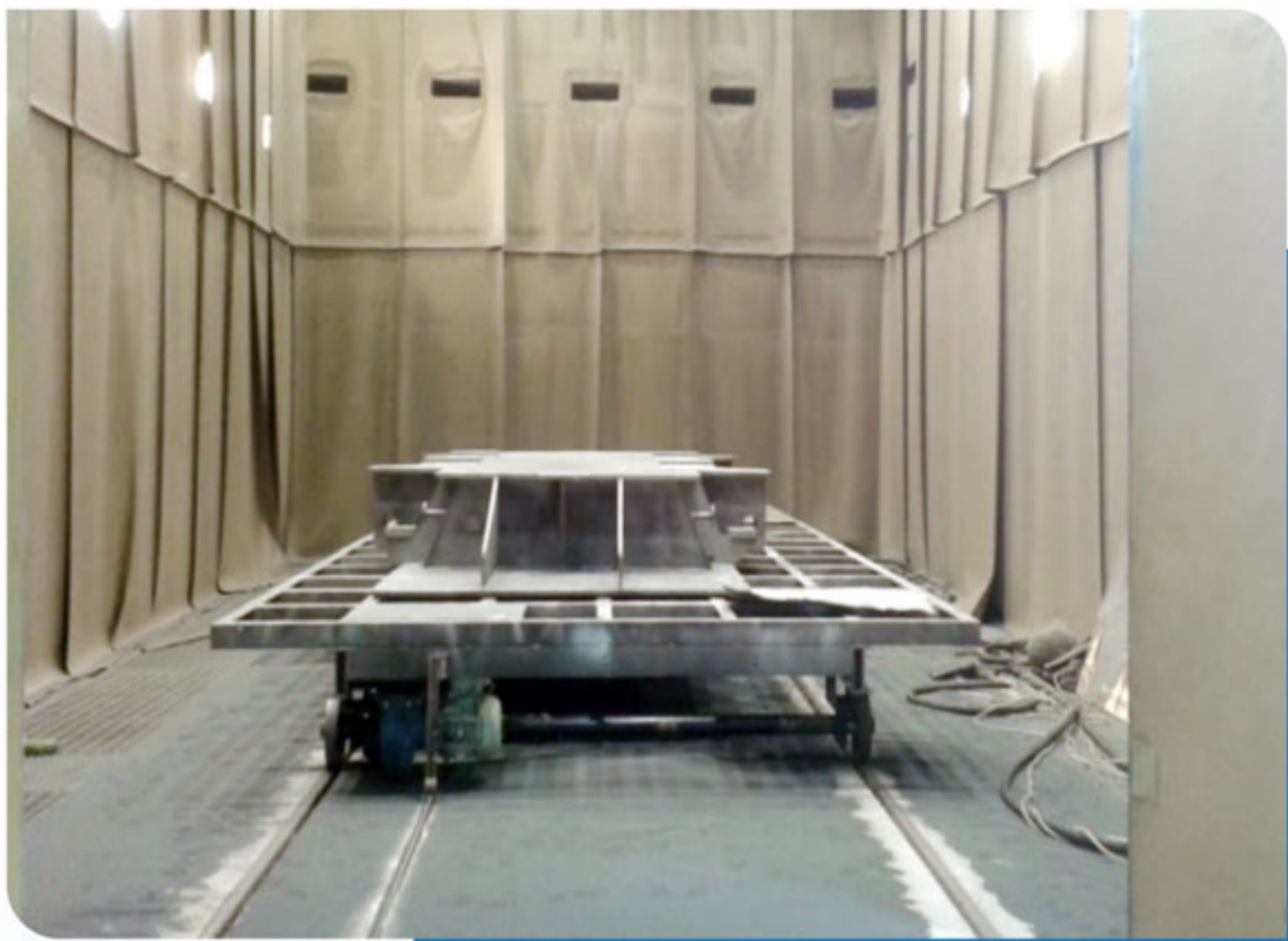
Bed Size	5M x 14M
Plasma	3-25mm ,
Oxy Fuel	25 - 200
Make	Ewac Alloys
Model	Multitherm 6000

CNC Press Brake ▶



Technical Specification

Make	Hindustan
Work Length	4000
Capacity	320T
Model	EHV 340

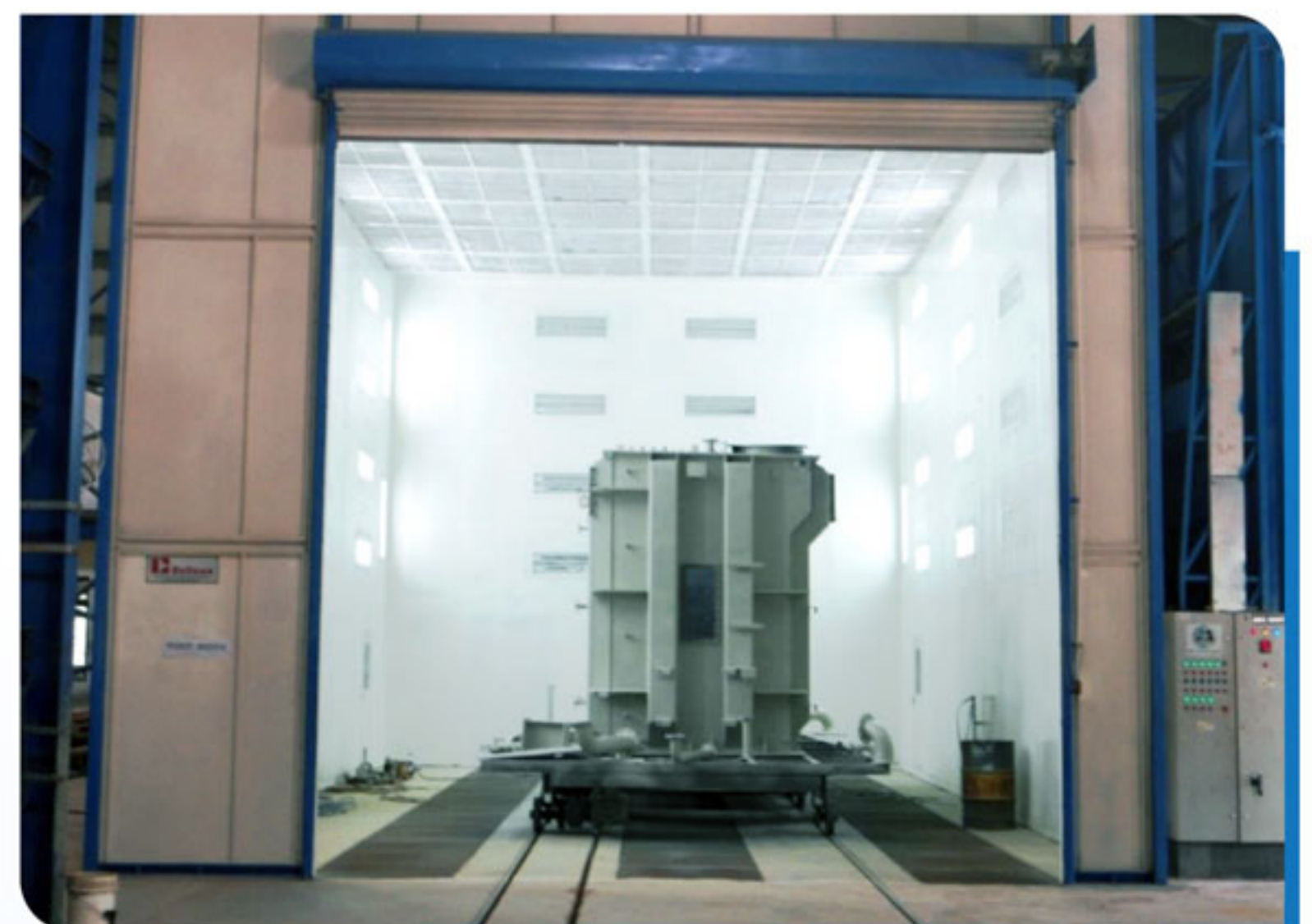


◀ Grid Blasting Chamber

Technical Specification

Size	15mx8.5mx7.5m
Type	Semi Automatic

Paint Booth ▶

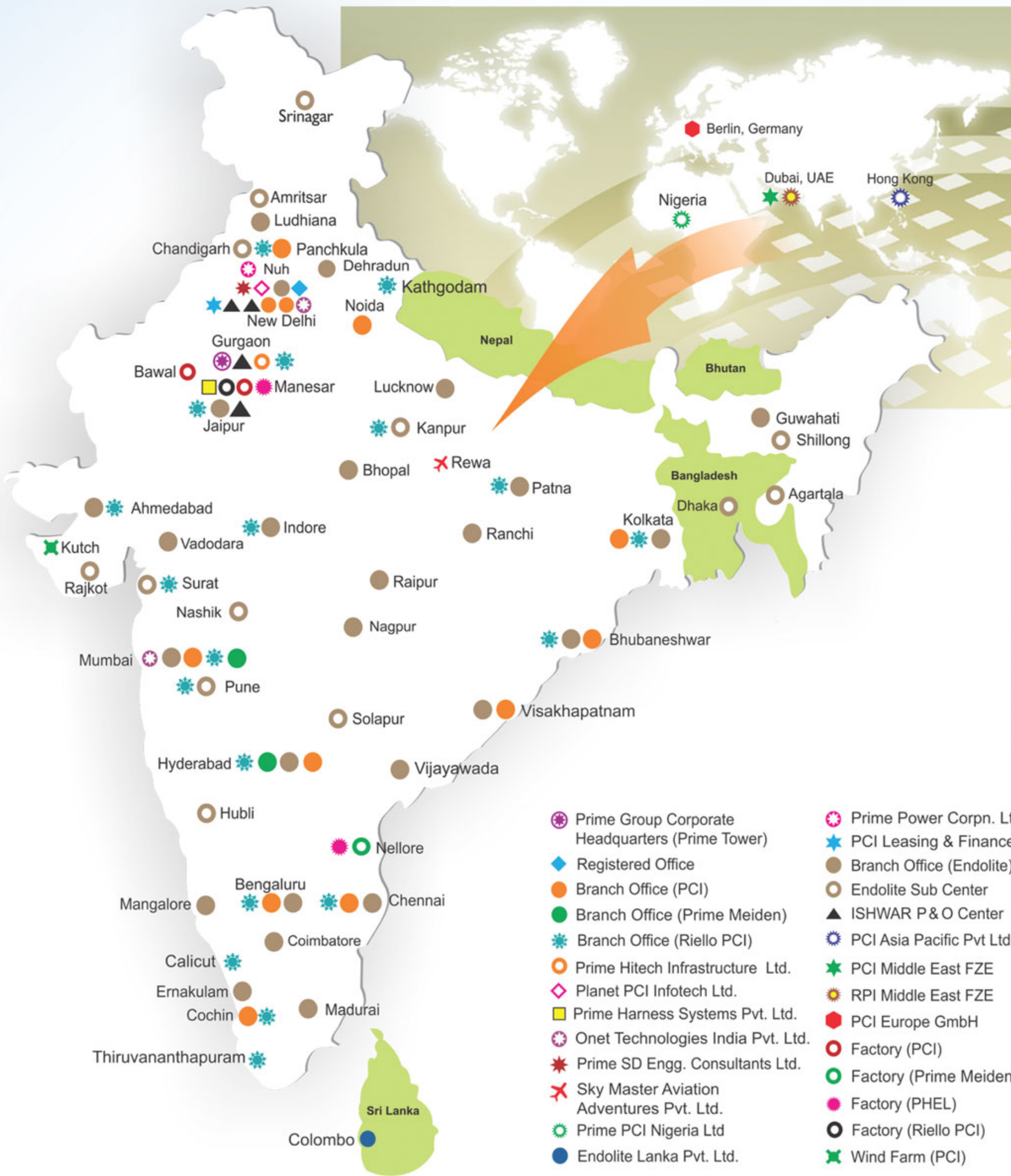


Technical Specification

Size	15mx8.5mx7.5m
Special	Humidity Controlled

PRIME GROUP Presence

Prime Group Worldwide



Platinum Rated LEED Certified Green Building

Map not to scale

"Prime Group", a 30 years old leading business corporate, has its Head Office located at Gurgaon, India and employs more than 2200 people at 36 Branch offices in the country and having fully owned subsidiaries companies in Germany, Hong Kong, Dubai and Nigeria. (www.primegroupindia.com)

"PHEL" (Prime Hitech Engineering Limited) a company under the umbrella of well established and renowned business conglomerate "Prime Group", PHEL is having varied interests in the field of capital good machinery engineering heavy machining / Fabrication, Drilling, Mining Equipment and associated Service



PH-EL
PRIME HITECH ENGINEERING LIMITED

Corporate Headquarters:

Prime Tower

287-288, Udyog Vihar, Phase - II, Gurgaon - 122016, Haryana, India

Tel.: +91 124 4111999 (30 lines), FAX : +91 124 4871698-99

Email : phelrigs@prime-phel.com, Website : www.prime-phel.com

Factory Address:

SEZ, Menakur Naidupeta, SPSR Nellore District,

Seemandhra - 524126, (India)

Mobile : +91 9010778674 / 9666452815