



ISO 9001:2015 CERTIFIED
PESO AUTHORIZED CYLINDER TESTING PLANT
INDIA'S LEADING CNG CYLINDER TESTING COMPANY
ADVANCED TESTING FACILITY WITH ADVANCED TECHNOLOGY EQUIPMENTS



We Inspect.
We Test..
We Certify...
Cylinders....



Green Energy Solutions

We Ensure Your Cylinder Safety..



>> WHO WE ARE ..

Green Energy Solutions are the pioneers and most experienced in Automobile field and established as a subsidiary company of Gasoline Fuel Systems India are the sole distributor for cng conversion kits. The Company have distribution unit and Govt approved Retrofitment Centre for CNG kit installation for automobile vehicles. (under European standards ECER-67-01 norms & ISO-15500)

Concern

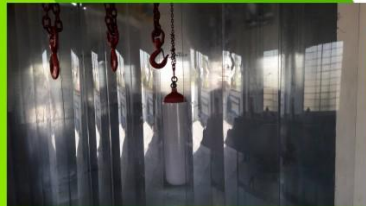
Company has great concerned about the enormous growth of pollution, from automobile vehicles, that our Government try to impose reduction pollution and suggested use of LPG/CNG especially for the three wheeler autos & taxi, with the aim of cleaner & healthier air to our mankind. Company started set-up for CNG cylinder re-testing facility and which is PESO & ISO 9001-2015 Certified company for the safety of the customers.

Motive

INDIA is among the leading countries where using compressed natural gas (CNG) is being across the transport industry. With an increase in the number of vehicles using CNG, accidents are also on the rise. It is therefore critical that we all follow government guidelines and get our CNG cylinders tested every 3 years and ensure cylinder safety. Our Motive is to reduce the accidents and ensure the cylinder safety to our ultimate customers those who are using CNG to reduce the pollution level in this world.

Goal

Green Energy solutions is the trusted name in Re-testing of high pressure gas cylinders approved by CCOE (PESO) Nagpur. Company is located in Kamtadi-Village, Pune- Bangalore Highway. We test.. Inspect and certify the cylinders mounted on Auto rickshaws, Taxi, Car, Bus, Trucks, CNG Cascades, Bio CNG Cylinders, Industrial cylinders at affordable price at our factory. We do all the tests as per the guidelines of Indian Government and follow the Gas Cylinder Rules to achieve the safety first goal.

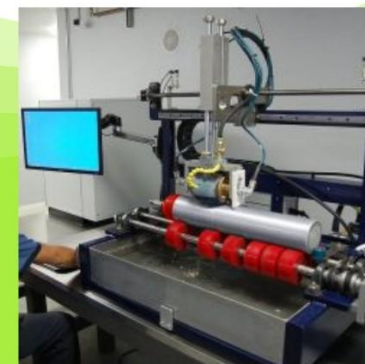


We do...Testing as Per Gas Cylinder Rules

PESO AUTHORIZED CNG CYLINDER TESTING PLANT



- **CNG CYLINDER TESTING**
- **CNG/BIO-CNG CASCADE RE-TESTING AND REFURBISHMENT JOB**
- **ULTRASONIC FLAW DETECTION JOB**
- **CASCADE FABRICARICATION AND REFURBISHMENT JOB**
- **HEAVY VEHICLE RETROFITMENT**
- **RETRO FITMENT OF KITS FOR CARS**
- **CERTIFICATION AND REVALIDATION OF CNG CYLINDER**
- **INDUSTRIAL CYLINDER TESTING**



SAFETY FRIST..... POLICY

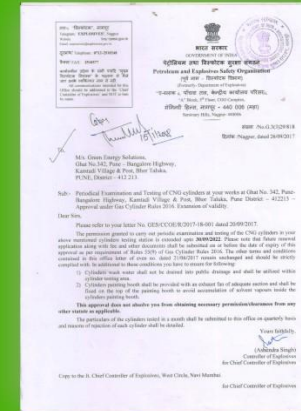
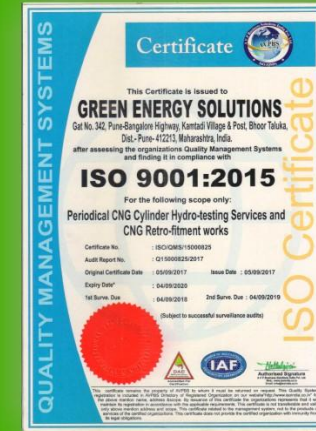




WE ARE PESO APPROVED CNG CYLINDER TESTING PLANT !!

WHY US ?

- >> CNG Cylinder Tested by PESO. Approved Testing Agency.
- >> We test and inspect the cylinders.
- >> Ensure Cylinder safety is our primary concern.
- >> CNG cylinder should be inspected/tested periodically every three years
- >> We provide Metal plate/Certificate along with tested Cylinder.
- >> We provide Reinstallation Certificate with inspection of all kit related parts and joints... leakage etc..
- >> We also do kit servicing, repairing and Reinstallation Services.









Quality Policy



Green Energy Solutions is a quality oriented company and will continuously strive to provide products/ Services as per the national and international customer's requirements by maintaining quality at all stages and with active participation of all the employees.



Approvals & Certifications

-  Authorized by PESO / CCOE (Govt. of India) for Type- I and Composite cylinders
-  ISO 9001:2015 Certified Quality System
-  Compliant with IS:8451, IS:15490, and other regulatory standards
-  Calibrated and Certified Equipment
-  Qualified Office Staff
-  Trained & Certified Testing Technicians



Services Offered



- ☒ Hydrostatic Pressure Testing of CNG Cylinders - Type I, Type III & Type IV
- ☒ Refurbishment of CNG Cascades (including repainting, pressure test, repair of Accidental cascade)
- ☒ Refurbishment and repair of CNG Composite cylinders
- ☒ Manufacturing of CNG Cascades using Type-I, Type-III & Type-IV cylinders
- ☒ Importer & Supplier of CNG Kits & Fittings (ECER-67-01 Certified)
- ☒ Government-Approved CNG Kit Installation for all vehicle types
- ☒ Inspection, Leak Testing, and Certification of Automotive and Industrial Cylinders
- ☒ Valve Replacement, Cylinder Painting, and Safety Labeling
- ☒ Sale of Spare Parts & Accessories related to CNG systems



Facilities & Infrastructure

We operate from a well-equipped testing center spread over 1.5 Acre with dedicated areas for each operation. Key infrastructure includes:

- 1) Office, Reception & Customer Waiting Area
- 2) Dedicated CNG Kit Fitting Area
- 3) secured Cylinder and fitting material Storage Zone
- 4) Safety Monitoring & CCTV Surveillance



Equipment's Facilities Available

Sl. No.	Equipment Name	Description
1	Weighing Scale	Measures cylinder weight to verify compliance with tare weight standards
2	Trolley	Used for safe and efficient cylinder transport within the facility
3	Motorized Washing Table	Mechanized cleaning of cylinders before testing
4	Ultrasonic Flaw Detector	Detects internal flaws and cracks in cylinder structure
5	Ultrasonic Thickness Gauge	Measures wall thickness of cylinders for safety verification
6	Hydro-Pump	High-pressure pump for controlled cylinder pressurization during testing
7	Mono Rail Crane	Lifting and moving heavy cylinders across test bays
8	Hydrostatic Stretch Test Jackets	Ensures safe containment during hydrostatic testing
9	Video Graphic Bore scope	Visual internal inspection of cylinder walls using camera technology
10	Gas Detector	Detects gas leaks for safety assurance during and after testing
11	Magnifier Glass	Assists in close inspection of valves, threads, and cylinder surface
12	Nitrogen Purging Manifold	Purges cylinders with nitrogen post-testing to remove moisture and gases
13	Nitrogen Cylinder	Supplies dry nitrogen gas for purging and drying processes
14	Paint Booth	Enclosed and dust-free zone for repainting tested cylinders
15	Air Compressor	Supplies compressed air for cleaning and pneumatic tool operations
16	Graduated Burette	Measures liquid displacement during hydro testing
17	Cylinder Hoist	Mechanized lifting for loading/unloading of cylinders
18	Cylinder Washing Chemical	Special chemical used for cleaning and degreasing cylinders
19	Power Wrench	Assists in torque-controlled valve fitting/removal
20	Tools Set	Comprehensive set of hand tools for general mechanical tasks
21	Valve Inspection Tool	Checks condition and alignment of cylinder valves
22	Hardness Tester	Verifies material hardness to ensure cylinder strength
23	Marking Machine	Laser or mechanical engraver for cylinder identification marking
24	Pneumatic Testing Machine	Performs leak testing using compressed air instead of liquid
25	Circumference Gauge	Measures outer diameter for confirming shape and structural integrity
26	Cylinder Drying Stand	Holds cylinders for natural or assisted drying post-wash
27	Bench Vice	Used to secure cylinders during manual valve or tool operations



Equipment's Available

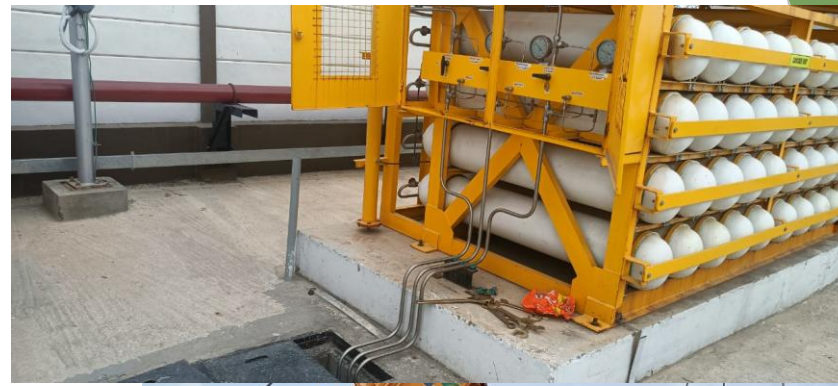


Sl. No.	Equipment Name	Description
28	Short Blasting Unit	A compact system used for surface preparation by blasting abrasive material at high velocity.
29	Short Blasting Silo	Storage container used for holding abrasive material before it enters the blasting unit
30	Screw Compressor - 30 HP	Rotary screw air compressor, typically used to supply high-pressure air for sandblasting and other pneumatic tools
31	Short Blasting Booth	An enclosed area where shot blasting is performed, containing dust and debris, and protecting the operator
31	No Go Gauges	To find the accuracy of tube fitting
32	Explosive Meter	Detect the Gas Leak
33	Lifting Ramp	To lift the Vehicle to remove the cylinders
34	Chain Pulley block	To remove and load the Cylinders from Cascade
35	Internal Cleaning Rolling Machine	For Cleaning Purpose
36	Magnifying Glass	To find the Proper Number Punched and detect surface of the cylinder
36	Air Leak Test Unit	To find the leak test especially designed for Type -3 and Type –IV Cylinders
37	Punching Tool	For Marking on Cylinders after Testing
38	DFT Meter	To find the Paint Thickness
39	Digital Vernier Caliper	For Measurement Purpose
40	Zero Volt Bulb	For Cylinder internal Inspection
41	Valve Removing Tools	Especially designed for Valve Removal and reinstall the Cylinder valves process
42	Welding machines	For Special Welding and refurbishment of Cascade Frames
43	Hand Grinders	For Grinding as well as Cutting
44	Specially Designed Drilling Machine	For Drilling Purpose
45	Tube Benders	For SS Tube bending Purpose
46	Tube Cutters	For Tube Cutting Purpose
47	Hot Air Blower	For Cylinder Drying
48	High Pressure Water Pump	For Cylinder Internal Cleaning Purpose
49	Cylinder Lifting Jacks	Hydraulic Jacks for Cylinder Lifting Purpose
50	Other related supplementary Tools	
51	Water Recycle System	Internal Water Recycle System for Hydrostatic Stretch Test





Cascade Loading Process



Cylinder Dismantling / Degassing/ Devalving Process



Degassing Zone



Jumbo Cylinder Testing



Tare Weight Measuring Scale

Internal Inspection / Borescope



Cylinder Drying Process & Internal Cleaning



Internal Cleaning



CYLINDER DRYING PROCESS EQUIPMENTS





Hydrostatic Pressure Testing



Ultrasonic Flaw Detection Test / Crack Test



Ultrasonic Thickness



Visual Inspection and Damaged Cylinder



Dent

Bulge

Corrosion





Shot Blasting Booth



Cylinder Shot Blasting



Short Blasting Silo



Shot Blasting Video



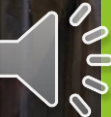
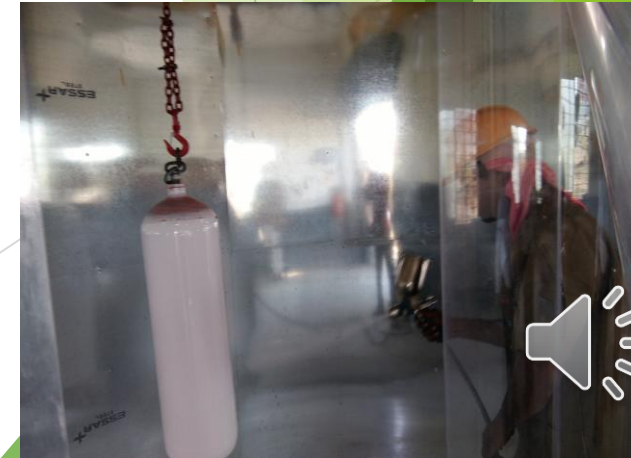
Primer
Coating



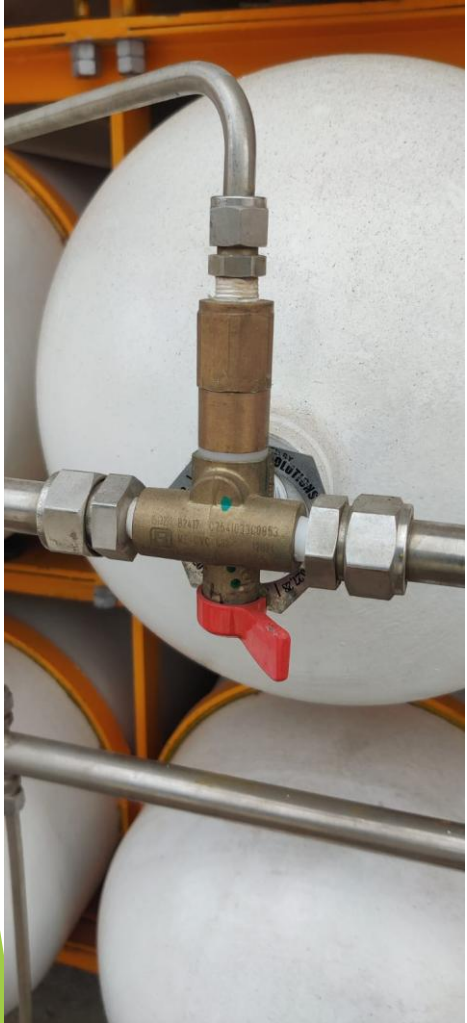
Cylinder Painting



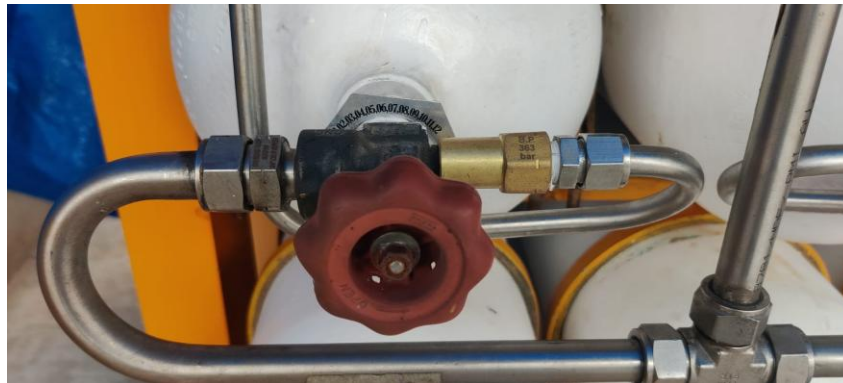
Painting Process



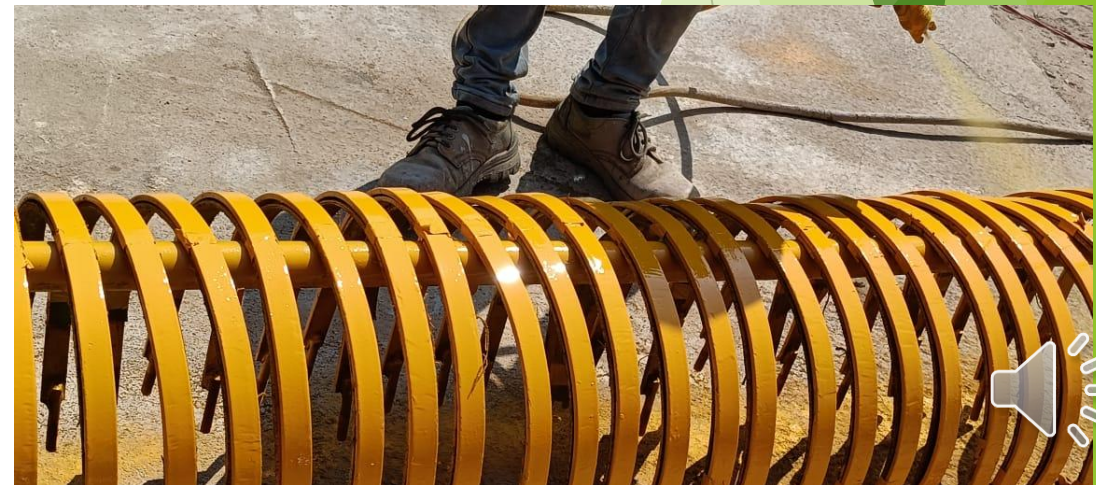
Cascade Refurbishment / Clamps/ Piping /Studs



Replacement of Burst Disc



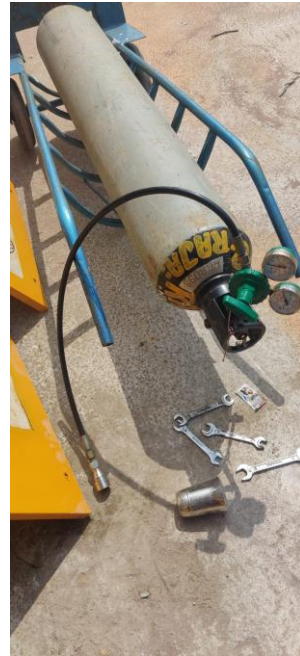
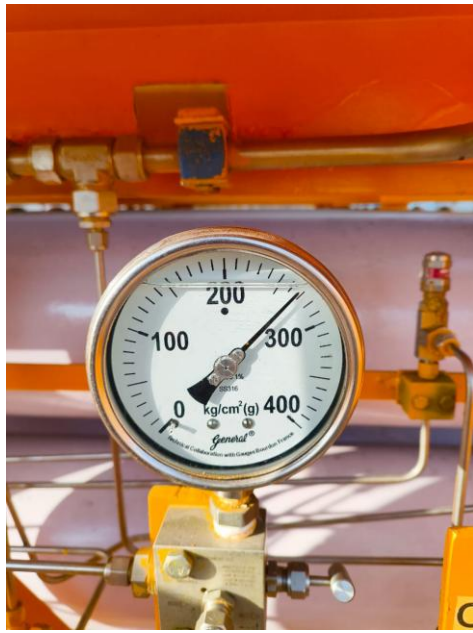
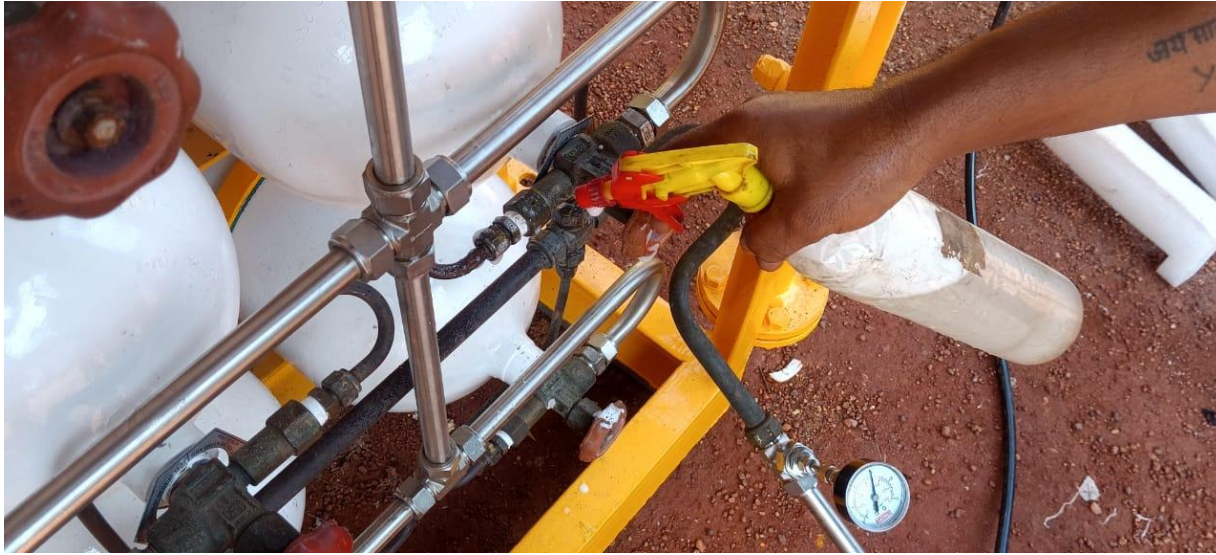
Replacement of Damaged Valve





Reassembly & Tubing

Cascade Pneumatic Testing



Nitrogen Purging

Paint Thickness / DFT / Gap Gauge



GREEN ENERGY SOLUTIONS

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Email : punegreenenergy@gmail.com Website : www.greenenergypune.com

CASCADE SR. NO. : EKCKATGFL/60/255-10

CYL. SR. NO. : H4C75B 42006 TO H4C75B 42066

EXCEPT : H4C75B 42025

EMPTY TARE WEIGHT :

GAS APPLICATION : CNG

W.P. : 260 kg/cm²

DATE OF INSTALLATION : 11/2020

TOTAL CAPACITY (L) : 4500

DATE OF RETEST : 09/2027

CYL. QTY. : 60

Paint Thickness Measurement

Cascade Installation by Crane on Site



Cascade Installation and Final Leak Test /Charging Process



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Contact : +91-93716-98999, 9730141999
Email : pune.greenenergy@gmail.com Website : www.greenenergy.pune.com

CUSTOMER NAME :

CASCADE NO. CYL. QTY.

CYL. SR. NO. TO

EXCEPT :

YEAR OF SUPPLY : GAS APPLICATION : CNG

DT. OF HYD. TEST : W.P. : BAR

NEXT DT. OF HYD. TEST : CAPACITY (L) :



Equipment's Machines ... Gauges...



Pnematic Testing High pr. Compressor

On board CNG Cylinder Testing



- Periodic Equipment Calibration
- Use of PPE by all Staff
- Fire Safety Equipment's on-site
- Emergency First aid & Incident Protocols
- MSDS Documentation Available
- ISO Certified
- Qualified / Trained and Experienced Team





PIAGGIO®



ASHOK LEYLAND



Our Clients





THANK YOU

Company Name: **Green Energy Solutions**

Established: **2014**

Location: Plant-1 : Pune, Plant 2: Chennai, Plant 3: Mangalore

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Green Energy Solutions

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**India's Leading CNG
Cylinder Testing
Company !!**

We do cng cylinder testing

Best staff to take care of your
vehicle

PESO AUTHORISED ISO 9001:2015
CERTIFIED

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**Green Energy
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