

**JITAMITRA ELECTRO
ENGG PVT LTD.**

Now Offers



CE
Marking



ATEX
Marking

**Exclusive Offer for
Export & Project
Requirements**

**JITMITRA - Leader in
Centrifugal Fans & Blowers
in India**

www.jitamitrablomers.com

WHAT IS “CE” MARKING

CE: Conformance Europeene OR European Conformity is a self-attestation process for the product.

The letters 'CE' appear on many products traded on the extended Single Market in the European Economic Area (EEA). They signify that products sold in the EEA have been assessed to meet high safety, health, and environmental protection requirements.






By affixing the CE marking to a product, a manufacturer declares that the product meets all the legal requirements for CE marking and can be sold throughout the EEA. This also applies to products made in other countries that are sold in the EEA.




HOW JITAMITRA IS QUALIFIED FOR CE MARK

- We provide CE DOC (Declaration of Conformity) in the standard format that is the legal document stating the EU directives and standards compliance of the product
- The product in our delivered version complies with the appropriate basic safety and health requirements of the EU Directives: 2014/25/EU; 2006/42/EC
- All Jitamitra CE fans are thoroughly tested and assessed to make sure the design features meet all necessary requirements of the following standard: EN ISO 12100:2010: Safety of machinery - General principles for design - Risk Assessment and risk reduction
- All manufacturing process starting from design, manufacturing, testing, marking & certification are in compliance with the standards described in the directives
- Every CE Marking fan and blower has a CE logo on the nameplate, all relevant manuals, safety stickers provided along with the product
- The technical file for the above mentioned machine is compiled as per the requirements of the Part B Annex. VII of the directive 2006/42/EC

SAFETY STICKERS UNDER CE

Location	Sticker 1	Sticker 2
Fan Inlet		
Coupling/ Shaft Guard		
Grounding point		
Lifting Points		

CE NAMEPLATE

JITAMITRA FANS & BLOWERS			
  JITAMITRA MADE IN INDIA	SR. NO.		
	MODEL		
	Volume	CMH	Motor HP
	Pressure	mm WC	Motor rpm
	FAN rpm		Motor Volt
	MISC		Motor Phase
	PROJECT		Motor Hz
	YEAR OF CONSTRUCTION		
Tested as per IS:4894			
Jitamitra Electro Engineering Pvt. Ltd. N-7, M.I.D.C., AHMEDNAGAR (M.S.) Tel.: 0241-2777377 Email: anand.ekbote@jitamitrablowers.com Website: www.jitamitrablowers.com			

Sticker Location	Sticker 1	Sticker 2
Inspection Door		
Casing Front		
Hot Do not touch		
Noise Hazard		
CE Sticker		

WHAT IS ATEX CERTIFICATION

Explosion Protection requires extreme care in design, manufacturing and maintenance, i.e., entire product life cycle for fans and blowers.

Selection of the right fan depends on correct and complete inputs given to us by the end user/ owner of the application. Complete responsibility to classify the application according to Zone, Temperature class and specific requirements is on the owner of the application/ our esteemed customer. As manufacturers of blowers we are not allowed to categorize or classify the application of our client.



GUIDELINES – ZONES AND TEMPERATURE CLASS

The rotating or moving part in the industrial fan (the impeller) and the electrical power supply (the motor) are potential sources of ignition. According to the directive, there are specific guidelines for design of fans that are used in hazardous areas. These guidelines are different according to the requirement of the application. The requirement is defined by following criterion: Zone, Temperature class and specific requirements.

ATEX Zones for Fans and Blowers

The Zones exist as follows based on the presence of the flammable substances

Gases and Category	Gases/ Vapours Zone	Dusts Zone	Presence of Explosive Mixture
1	0	20	Present continuously or for long periods
2	1	21	Likely to occur in normal operation
3	2	22	Not likely to occur in normal operation and if it occurs, exists only for a short time

Temperature Classes of ATEX Fans and Blower

Temperature Class	Maximum Permissible Surface Temperature of Resources (in Degree Celsius)
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

HOW JITMITRA IS QUALIFIED FOR ATEX CERTIFICATION

We have carefully designed standard ATEX enquiry form that needs to be filled with all the hazardous area requirements of the client.

Every Jitmitra ATEX fan is custom designed according to ATEX enquiry form and then carefully manufactured with highest quality standards. This ensures that each ATEX fan we manufacture is robust, safe and performs at optimum level. Each fan is fitted with specially protected motors.

For ATEX Certified Fans, Note That:

- We provide ATEX Certificate (Declaration of Conformity) in the standard format that is the legal document stating the EU directives and standards compliance of the product
- The product in our delivered version complies with applicable basic safety and health requirements of the EU Directives: 2014/34/EU; 2006/42/EC
- All Jitmitra ATEX fans are thoroughly tested and assessed to make sure the design features meet all necessary requirements of the following standard: EN 14986: Design of Fans working in potentially explosive atmospheres
- Our standard contains design, manufacturing, testing, marking & certification procedures
- All ATEX fans are subjected to a running test
- Every fan is customized and then manufactured to meet exactly the needs of the application giving an efficient, reliable and safe solution

APPLICATIONS AND INDUSTRIES WHERE ATEX MARKING IS REQUIRED

- Water processing plants
- Petro chemical plants
- Food and Wood processing industries
- Paper and plastics materials production
- Pharmaceuticals Production
- Offshore Energy Exploration
- Paint shops
- Surface Treatment industries

ATEX NAMEPLATE

JITMITRA FANS & BLOWERS			
CE	SR. NO.		
	MODEL		
	Volume	CMH	Motor HP
	Pressure	mmWC	Motor rpm
	Fan rpm		Motor Volt
	MISC		Motor Phase
	PROJECT		Motor Hz
	YEAR OF CONSTRUCTION		
	TESTED AS PER IS:4894		
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Motor Specifications

ATEX certified motor is mandatory component for ATEX marking fan and blower

**JITAMITRA is part of ZEN group (group turnover of Rs. 400 Million) -
JITAMITRA fans & blowers division was established in 2010**



Features of manufacturing infrastructure:

- Advanced processes like CNC laser cutting , CNC bending , TIG/MIG /CO2 welding
- Spinning machine for inlet cones
- Scientific test bench with VFD assisted panel for testing as per IS 4894
- Fan selection as per Design software and fan curves plotting according to variable RPM

Business Background:

- JITAMITRA is official business partner to M/s Elektror airsystems gmbh (Germany) from 2010 for their sales of Aluminium cast blowers in India.
- JITAMITRA has delivered >4000 fans and have commissioning references all over India as well as outside India, in countries as Malaysia , Indonesia , UAE , Russia & Germany
- JITAMITRA 's range covers rating 1 HP to 500 HP power & in terms of airflow /pressure, up to 300,000 m3/hr & up to 1800 mmWC which covers wide spectrum of application

Our Presence:

- Paint Booth / Automotive Industry - **ATEX Applications**
- Steel Industry
- Pollution Control Equipment (Fans for Bag Filter / Scrubber / Incinerator)
- Boiler Industry (ID / FD / PA Fan)
- Oven & Furnace Industry (Combustion Air Blowers, Plug Fan, Air Circulation Fan)
- Surface Treatment Equipment (Plating Process)
- Chemical Process Industry (ID / FD Fan for Spray Dryers)
- Pharma Industry (High Pressure Blowers) - **ATEX Applications**
- Food Industry - **ATEX Applications**



AMADA Laser Cutting Machine



ABRO Balancing Machine



YAWEI CNC Bending Machine



Cone Spinning Machine



Testing Equipment



Fan for Testing as per IS 4894



CONTACT DETAILS

Please feel free to call or write to us regarding your inquiry for Normal and CE/ ATEX marking fans. We are more than happy to share detailed knowledge and guide you in the process of right fan selection and certification requirements

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