



**SOLUTION
TO YOUR PROBLEM
OF IRON FILING IN TEA**



IRON FILING EXTRACTOR MACHINE



SEPARATED IRON FILINGS

COME,
LET US DRINK IRON FREE HEALTHY TEA,
AND START OUR DAY WITH FULL OF HAPPINESS



Iron filing removing : machine invented by Dr. Jatindra Nath Kalita (Ex-Scientist, TOCKLAI) is the need of the – hour as the FSSAI has set limit of iron filing at 150mg/kg. To date there is no such specific hassle – free online iron filing extractor to continuously remove iron filing from tea in the manufacturing process. The global export market is also very much concerned about the presence of iron filing in tea.

JNK Iron Filing Extractor is an automatic device which can be conveniently used in any food processing industry to remove iron filing from finished products.

In automatic tea factories, this device can be installed at any point between the dryer mouth and packing point without making any major change of the existing factory design, the best position being before the packing point.

The machine design grabbed the Tech Brief award conducted by NASA in “Create the future design contest” during 2014 under the category of “Sustainable Technologies” in the international level.

FSSAI Operationalizes the limits of Iron Filings in Tea

The FSSAI has given directions regarding the operationalization of the Food Safety Standards (Food Product Standards and Food Additives) Amendment Regulation 2016 relating to the limit of iron filing in tea. FSSAI had notified the amendment in May 2016 and after taking into consideration the comments and suggestions of all stakeholders has finalized the limit of iron filings in tea.

The FSSAI has fixed the limit to 150mg/kg of tea. Processed tea leaves can become contaminated with iron filings due to processing methods like sieving and crushing. The iron filings are conventionally removed with the help of magnet treatment but this method cannot remove all the iron filings so some get left behind. The FSSAI has given directions for their operationalization.

The FSSAI has directed enforcement officials in all the states and Union Territories to implement the directive as the final notification and so tea samples will now be tested for iron filing contamination.

Iron in human bodies is considered beneficial as it carries oxygen for hemoglobin. However, excess of iron can cause overloading and lead to diseases like liver cirrhosis, osteoporosis, heart failure and esophageal cancer. While it is not possible to have zero filing in tea it is possible to limit the iron filings to a level that is safe for human consumption. The FSSAI had also consulted the National Institute of Nutrition (NIN) Hyderabad in this regard.

MELENG TEA ESTATE

Jay Shree Tea & Industries Ltd.
ISO 22000:2005 Certified Unit



Email ID: melenge@yahoo.in

MEL/CER/17-18/

May 11, 2017

TO WHOM IT MAY CONCERN

We hereby certify that JNK Online Iron filling machine manufactured by M/s Vishal Organic & Research Centre, Marwari Patty, Near L.G. Showroom, Jorhat, Assam is working smoothly and the performance of the equipment is more than satisfactory and apparently it adds value to infused leaf and liquor.

GENERAL MANAGER,
MELENG TEA ESTATE.

Buy Garden fresh Tea on-line at www.jayshreetea.com

P.O. Nakachari, Dist: Jorhat, Assam-785635, P.O. Box: 97, Jorhat-785001, Airport, Jorhat, Ph. +91 3762922426
Regd. & H.O.: Industry House, 13th Floor, 10 Camm Street, Kolkata-700017, India. Website: www.jayshreetea.com

CIN NO-L15491WB1945PLC012771

JNK



BORBAM TEA GARDEN

P.O. : Amguri - 785 681

Dist : Sivsagar, Assam

E-mail : bbm@goodricke.com

TO WHOM IT MAY CONCERN

This is to certify that "JNK IRON FILING EXTRACTOR" manufactured by M/S VISHAL ORGANIC & RESEARCH CENTRE, JORHAT is being used at Borbam Tea Garden for last one month and the machine is running without any problem and giving satisfactory result till now. The machine is taking out embedded iron particles which go undetected by common bar magnets.

Borbam Tea Estate
SENIOR MANAGER
BORBAM TEA GARDEN

Date: 14th of June, 2017

AMGOORIE INDIA LIMITED

Regd. Office : Amgoorie Tea Garden, P.O. : Amguri, Halonging 785 681, Dist. : Sibsagar, Assam
Administrative Office : "Camellia House", 14, Gurusaday Road, Kolkata-700 019

A Camellia Pte. UK Group Company

BOKAHOLA TEA COMPANY PRIVATE LIMITED

Telephone :
Jorhat - 0376 2320238, Fax: 0376 2360532

Registered Office :
Torigan, P.O. Jorhat - 785051, Assam
Email: bokaholajorhat@gmail.com

TO WHOM IT MAY CONCERN

We are glad to state that the "JNK iron filing extractor" has been installed at our tea factory. We are satisfied with the working of the machine as well as the quick service response of the manufacturer. The machine is truly hassle free compared to the conventional fixed magnet method at several points. After satisfying with the first installation, We are going for a second installation of the same for our other two dryers.

A. A. KHAN
ADVISOR



BISHNUPUR TEA COMPANY PVT. LTD.

CIN : U01132AS1958PTC001126

REGD. OFF. : Anil Plaza-II, 2nd Floor, ABC, G.S. Road, Dispur, Guwahati - 781005
Phone : +91 361-2460032 / 2460082, Telefax : +91 361-2462083 / 2462084, E-mail : cgrouppessam@gmail.com
ADMIN. OFF. : Singhal's Complex, Seouri Ab, A.T. Road, Jorhat - 785002, Assam
Phone : +91 376-2351343 / 2351556, Fax : +91 376-2350503

Ref. No. :

Date: 07.06.2017

TO WHOM IT MAY CONCERN

M/s VISHAL ORGANIC & RESEARCH CENTRE, Jorhat-1, Assam is a reputed organization who has manufactured "JNK ONLINE IRON FILLING" to remove iron filling from tea. We are satisfied with the working of the machine to remove iron filling from tea as well as enhancement of quality.

The machine is well equipped with tools and we find the working standard up to our level of satisfaction and we hereby recommended for the same.

For Bishnupur Tea Co. Pvt. Ltd.

Manager (H.O.)

Jallan Furkating Tea Company Pvt. Ltd.

Regd. Office & Unit :
Furkating Tea Estate
P.O. Furkating - 786 610
Dist. Golaghat, Assam

Adm. Office : New Amalgality
P.O. & Dist. Golaghat - 786 621, Assam
Phone: 0374-260604
Email: jallanfurkating@gmail.com

CST: 18729804211
TIN: 18620070905
CIN: U01132AS1991PTC003551

TO WHOM IT MAY CONCERN

This is to certify that we have purchased 2 Nos. of JNK Iron Filling Machine from M/s Vishal Organic & Research Centre for our tea factories at Furkating and Abhoyjan.

The machines are found to be quite satisfactory and are working efficiently.

We wish them all success.

For, Jallan Furkating Tea Company Pvt. Ltd.

Director

AN ISO 9001:2015 CERTIFIED COMPANY



COME,
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AND START OUR DAY WITH FULL OF HAPPINESS

MACHINE SPECIFICATIONS :

MODELS : FGSS-H800/1000/1200

Type : Vertical drop flow Hopper feed type for both CTC and Orthodox

Built Material : Stainless Steel

Power Supply : 440V AC Three phase

Frequency : 50/60 Hz

Power Consumption : 350 VA max

Magnetic Power : 10/12/14 lacs gauss

Intial Vortex Generation : In <100 millisec.

Magnetic Flux lapse per cycle : In <10 millisec.

Dimention : 120 cm x 120 cm x 180 cm

ADVANTAGES

- ▲ **"One Touch" Start**
- ▲ **It is a hassle-free machine.**
- ▲ **Zero Mainteance cost.**
- ▲ **Automatic machine, i.e. No personal attendance/ regular checkup required as it automatically separates the iron filings from tea.**
- ▲ **The two conveniently placed removable trays in the machine allow you to collect and measure the iron filings peridically and can be easily cleaned.**

CONTACT

**VISHAL ORGANICS & RESEARCH CENTRE
MARWARI PATTY, JORHAT - 785001 (ASSAM)**

EMAIL: vtc_jrt@rediffmail.com

Vishal Baheti : 94350 50950

Piyush Sarda : 94355 12252

AN ISO 9001:2015 CERTIFIED COMPANY