Clean up Air
Would your factory have some trouble with such a thing?

You are in a hard lot because of full of heat or moisture in summer. Cooling in summer or warming in winter are with the general ventilation and the heat exchanger. In addition, the cost of the air conditioning expense is reduced.

There are stinks hard, so the workers are embarrassed and they have some worry about the health hazard. Yoshida diagnoses its situation, and improve the air environment according to the general ventilation or the local one.

At present, neither maintenance nor the regular service of the air-conditioning that should be done are executed. Yoshida executes it as a proxy, the regular service made an obligation by Act of Parliament and it maintenance

The working efficiency is bad because there are a lot of mechanical failures, and there are a lot of dust or soot in the factory. The cost of hand work and machine mending decrease by setting up the dust collector.

These are lot of generation of defective goods because dust adheres. Negative pressure in the factory is lost by “push-pull ventilation” As result, it suppresses the invasion of dust and garbage from the outside, and prevents dust from adhering.

These are a lot of site of incidences of dust, and neither the collection dust nor ventilation go well.

We think that the problem should be solved immediately for the enterprise. It is the environmental deterioration in the factory or causes not only employee’s health hazard but also a lot of damage and dangers of not anticipating.

Yoshida improves the trouble of such an air environment.

Local ventilation
- Dust, Mist
- Organic solvent
- Lead, Hume
- Special Chemical Substance (Asbestos, chlorine, cadmium, cyanide, hydrogen fluoride, hydrogen sulfide, etc.)

In case it wants the enclosure is not applied:
- Push-Pull

When there are some locations to be ventilated to the smell of painting or organic solvent.
The direct vent type Push-Pull Ventilation

Temperature management, stream, cancellation of stink, at the factory
- General ventilation

Plant management
- The regular service, management
- Make an obligation
- Maintenance

Special advice, equipment maintenance or management

Do not put off the development environment!
ALL IN ONE

Making air environment clean in factory, Doing all it, Yoshida.

We are the team of experts about air conditioning, and we are based on the long experience and results. So we can diagnose all of users’ air environments. In addition, we design and construct the best air clean system by our originality. We comply with customer’s needs to do everything till making a complex document.

In total and Directly, Yoshida.

In the major manufacturer or the trading company, there might not be offices alone or be the engineer’s residing. Therefore, the region corporate being not able to satisfy the fact and demand variously is a current state. The full-time representative corresponds directly in Yoshida. As a result, we do fine correspondence. In addition, we will enable a complex, advanced design and construction in low-cost and a short term.

We want to offer what customers need the best.

For example, we customize the collection hood that the customer hopes one. We propose to enforce it low-cost by using an existing tent and he garage. This reason is that an original effect cannot be demonstrated by setting up the equipment of the manufacturer. We work on all cases based on the idea of offering what customers need the best.

We solve the problem by a fine investigation and analytical ability.
We analyze a current problem, verify the site, and set up the strategy of the problem solving.

We design customizing according to the usage and the purpose.
We propose the plan of exhaust and purification to base conditions of space and cost, in addition, your condition of space and the cost.

Document making correspondence back agency to statutory board.
We execute the check as a proxy. We make the document to the organization that supervise and arrange the procedure.

No holiday and all time. Rapid deployment
In case of trouble, the after situation that can correspond to the emergency is straightforward.
Our Yoshida has a certain answer based on a considerable experience and know-how for the project, the design, and the construction of custom-made.

The improvement idea to make the working environment comfortable better is different depending on the difference of the type of business and the condition in the factory. It is not an exaggeration to say that the same way might not exist. Therefore, the experience and know-how are necessary. Our Yoshida is always trying to propose the best plan in customer's fact based on the case study that has been cultivated up to now. It is a pledge to get a lot of trust.

It is a collection collectively of cut powder, the grinding powder in the factory, and all dust.

We calculated the dust collection ability necessary for all the processing machineries. We selected the dust extractor that satisfied a necessary dust collection ability of the entire factory and produced it on that. Moreover, we designed the exhaust part to clean the method of exhausting garbage easily. We took the customer's demand of the duct layout to the detail. A

Introduction details

Material processing industry
Kanagawa Prefecture,
In case of S company.

When plastic-coated and an insulated board are processed, considerable cut powder and the grinding powder are generated. It was not consistent pure-white without the mask and glasses in the factory. The dust collector has 22 small one. They are set up by the second floor. Therefore, the garbage collection was insufficiency, and the dust collection ability was also insufficient. Moreover, the complaint had been received from the local resident because of the noise, too.

When a new factory is constructed I want to make the factory hygiene management in the future a perfect condition.

Outline of construction

The dust extractor uses "Bag Filter." The device efficiently collects all that contains dust and cleans it.

Results

The problem that dust disperses to the circumference was canceled by the power of a strong collection compared with before. The exhaust of garbage has been greatly improved. As a result, the work efficiency improved. Moreover, the noise of the dust extractor falls below the standard value, and there is no complaint from the resident.
**Construction case files 02**

**Introduction details**

Heavy Industry manufacturer
Chiba Pref.
In case of M company

A large amount of dust disperses when the chips of the fuel of thermal power generation is put from the truck damper in the device.
The dust extractor that has had to the device doesn't function because there are problems in the ability or the method.
A good solution was not found through it inquired of the manufacturer of the device and of the extractor. Moreover, they presented fantastic sums of money.
The beginning of the solution was not able to be grasped.

A large amount of dust disperses when the chips are put.

We investigated a structure and effective space of the device by various viewpoints, and analyzed the mechanism of the dust dispersion. And we calculated a necessary dust collection ability. And, we set up the hood designed to collect dust efficiently in the route of which dust went out, and to return to the device automatically in the collected dust.

**Results**
The dust dispersion has decreased greatly compared with before. And the dust which is collected might return from the dust extractor to the device by automatically. So the maintenance load was adjusted to zero. It old cost extra expenditure because our company went all from meeting to manufacturing, construction, and the inspection. And it was possible to put it within the more budget.

**Construction case files 03**

**Introduction details**

Metallic cutting processing industry
Nigata Pref.
In case of K company

We set up "Mist-Collector" which soot in the factory was collected by the batch. After we calculate all the sizes, the dust collection abilities, and the duct piping pressures of each other, we designed and contracted the specification by our custom-made.

**Results**
The environment in the factory changed completely. A lot of opinions of the surprise were made by the site employee rather than thanks. Now, there are 14 mist-collector in this company.
Smoke and the gas of the foundry are efficiently exhausted with the dust collector.

We designed the limited part exhaust hood corresponding to the site of incidence of smoke and the gas. To transport the contaminated air by the duct, and to exhaust it to the outside efficiently with the exhaust fan, we designed.

Results
It was exhausted to a smooth but by the smoke that was generated when the hot water was poured, and kept being generated afterwards. As a result, the working environment has been greatly improved.

The movable painting booth is introduced by a low cost.

We used economy by custom-made to fill an ability within the budget of the limit necessary. We designed, and constructed the painting booth of an original acclamation tent by a low cost for that.

Results
The working environment has been improved by necessary minimum equipment. The problem that the painting powder adheres to other products was canceled. The approval of the supervisory authority was able to be resolved.
**Construction case files 06**

The complaint generation was adjusted to 0 by setting up a simple clean-room.

We calculated necessary minimum dust level. And, the clean room that had been matched to the shape of the large-scale processing machine was designed by custom-made.

![Image of clean room and processing machine]

**Introduction details**

Large-scale equipment processing factory Yamagata Prefecture. In case of N company.

There are many large-scale processing machines, and mills, grinding, and the three-dimensional measuring machine. Therefore, the grinding powder, the mill, and the dust not visible are always floating. They adhered to the processing side of the product, and it caused a detailed wound. Therefore, a large sum of case to the complaint for which it made amends did not leave the back. There was a problem at cost or the construction period, and the other though I thought about the introduction of a clean room.

Before construction of the grinding machine

Before construction Environment

**Outline of construction**

Before construction

After construction

Internal pressure ventilation fan

We set up class 1000 in a clean room in the grinder. Negative pressure in the tent can be adjusted with the fan for this pressurizing internal.

**Results**

It was considerably cheaper than conventional clean room, and will be possible to construct it in a short term of several days. Therefore, there was no influence in the operation of the factory, and the complaint of the product was canceled.

![Image of grinding machine and clean room]

**Construction case files 07**

The grinding dust is prevented from dispersing with the bellows type tent.

We designed the equipment of the opening and shutting type tent matched to the sizes of the processing parts. We had the contaminated air prevent dust from dispersing by grinding in the tent, and exhausted to outdoor.

![Image of bellows tent and grinding machine]

**Introduction details**

Metallic cutting processing industry Ehime Prefecture. In case of K company.

There are a grinder and ball grinding work of large-scale parts in the working line. Therefore, the problem such as the troubles and health hazards to the wearout of the adhesion of the grinding powder and the moving part and the precision parts occurred in other equipment. Because the processing parts were large-scale, and the work area was wide, the local ventilation was insufficient.

**Outline of construction**

Before installation

During installation

Dust collector

The state of the painting workshop before installation. As well as the workplace, even dust away with equipment around, it was hard to clean every day.

**Results**

We succeeded in keeping to beauty in the factory because of disappearing of the dust dispersion to a dust of work district and surrounding machine. Moreover, because dust on the floor was exhausted by the air blow, it became easy to clean.
Construction case files 08

The painting environment is improved with a push-pull ventilator.

Introduction details

Tool manufacturer painter place
Niihata Prefecture.
In case of Y company.

The dust generated when painting has been exhausted only with the ventilation fan, and it is not exhausted enough. Moreover, paints exhausted to the outside by the ventilation fan adheres to the car etc. The order for improvement had come out from competent authorities, and the installation of the painting booth was sped up. However, the problem was to various to size about the product, and have to set up of each in a place away.

The push-pull ventilation

The current of air is made from the inhalation and the balloon in the entire room, and it is a collection and an exhaust method.

We designed the painting booth that had been matched to the size of the painting room. To exhaust it smoothly, we adopted the push-pull ventilation method regardless of the site of incidence of paints.

Results

Painting worker’s environment has been improved. Permission descended from the competent authorities. In addition, the trouble with the vicinity was canceled by beautiful air that the exhaust is filtered by the filter.

Construction case files 09

Suggestions for improvement to noise at factory

Introduction details

Electronic parts plant
Fukushima Prefecture.
In case of N company.

Many outdoor machinery such as the dust extractor, compressors, and the cooling towers are set up in premises. The level of each noise had to be high, and to improve the noise in the entire premises, it was necessary to improve it on the adjacent factory and the premises working environment. This problem was pointed out from the competent authorities. However, the kind and the number of sources of the noise are applied and it is not touched hugely, and complex.

Cooling Tower
It is possible to cover in the noise block and to reduce it by the sound source by about 10dB. Covering with the heavy box can reduce the low-frequency noise.

Compressor room
It is possible to reduce it by fan sound source by about 20dB or more by pasting the acoustic material in the ventilation duct and applying it.

Fine particle duct
10dB was able to be reduced by the sound source by pasting the acoustic material in the fur, and setting up the muffler outside about 15dB and hubs.

Results

It has been improved to a comfortable environment by reducing the noise in the vicinity and premises. The cost was able to be pressed greatly because it was by noise amelioration.
Vehicle exhaust emission measures of engine

Introduction details

Machinery manufacturer
Niigata Prefecture.
In case of H company.

When the engine of the compressor was fired, a large amount of vehicle exhaust gas had been generated with the production company of the compressor. In the factory, the gas and oil were filled. It does not function well through a fixed ventilation hood and several low-speed ventilation fans set up because the machine that produces it is big and small and various. Moreover, the exhaust temperature was the high temperature (about 250°C), so heat proof in a flexible hood ran short, and it was not able to be used.

Outline of construction

Results
Because the hood can be brought close to the exhaust vent, it is possible to exhaust it efficiently even by a little amount of the wind. It is achieved low-cost, and the environment in the factory has been improved greatly.

The equipment trouble is prevented beforehand by the periodical voluntary inspection and maintenance.

Introduction details

University research facilities
Miyagi Prefecture.
In case of T university.

At T university, there are various research facilities, and a lot of exhaust devices are operating. In the Department of Science and Department of Agriculture, the machines such as organic solvents and specified chemical substances are used. In the Department of Engineering, dust and the material by cutting and grinding are generated. The method was considered about though it was directed that a regular voluntary inspection was done from the competent authorities and the university.

Results
We set an original inspection item at the inspection item and each equipment provided by Act of Parliament. We are executing the voluntary inspection as a proxy in place of the facilities manager at the university.
Greeting

Yoshida Industry installs an appropriate local exhaust ventilation to harmful gas, steam, and dust. And we make a comfortable working environment. It works hard at the research, and the most suitable local exhaust ventilation is designed and constructed to all of users’ working conditions based on the experience and results for a long time.

Representative director Yoshida Norio

Corporate principles

"It is an enterprise that builds both through life."

We value people’s connections, and achieve life that man is comfortable and happy through the environmental reform of a regional enterprise.

Yoshida’s company policy is “We defend the pure air as a pollution control enterprise, and contributes to the society by preserving customer’s health.”

Our company proposes the correct strategy of customer’s workplace environment based on high knowledge power and the technology that has accumulated after it establishes, and can solve it.

Moreover, we execute no holiday from early time all the year round, and the situation that can correspond at once to the embarrassment of the customer is in order.

We design the dust collectors or the limited part exhaust device, and produce it. In addition, it is a regular service, maintains the equipment of existing to maintain excellence at all time, and is useful as the total planner of the working environment improvement.

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We correspond the whole country anywhere.

Yoshida solves the embarrassment of the air environment maintenance

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