

DEALS IN:

INDUSTRIAL OIL FILTRATION MACHINES, PSA OXYGEN / NITROGEN GENERATION PLANT & WASTE HANDLING EQUIPMENT

Toll Free No.: 1800-212-4645



+91-120-2341166



info@cbsenergy.com, cbsenergy@gmail.com



www.cbsenergy.com

Manufacturing Unit: H-5/6, Site-5, UPSIDC Industrial Area, Kasna, Greater Noida, U.P. - 201310
Registered Office: 110-111, 1st floor Rishabh Ipex Mall, Opp. Max Hospital, I. P. Extension,
Patparganj Delhi, India Pin: 110092



A brief Introduction

CbS is a diversified group having interest in engineering, Industrial Oil Filtration Machines, PSA Oxygen / Nitrogen Generation Plants, Waste Handling Equipments and developing many items under Make in India. Companies under CbS group are:

CbS Technologies Pvt. Ltd. (Unit-1)

At Greater Noida, manufacturing a wide range of Industrial oil filtration machines, centrifuges, Transformer oil filtration plant etc.

CbS Technologies Pvt. Ltd. (Unit-2)

At Greater Noida, manufacturing PSA Oxygen / Nitrogen Generation Plants, Waste Handling Equipment, etc.

Su-Raj Foundation:

An NGO committed for development of smart villages.

CbS I.T.I.:

At Kashipur, Uttarakhand established to educate youth under skill development mission of India.

Why CbS?

R&D Affiliations



Defence Research & Development Organisation



Bhabha Atomic Research Centre



Council of Scientific & Industrial Research



Indian Institute of Technology

Business Affiliations





Board

Make in India

Manufacturing Partner of M/s E c&e lt, Netherlands

Certifications















Certified

Quality council of india

9001:2015

13485: 2016

14001:2015

7396-1:2016

Certified

Important OEM Routine Customers











Indian Railways

Defence

Power Grid

NTPC

NHPC











ONGC

BHEL

GAIL

HAL

ITBP

Customer's Advantage







Modular Option Available



IoT Enabled Products
(Option Available)

We Export To



- USA Australia Tanzania Saudi Arabia Bangladesh Vietnam
- New Zealand
 Russia
 Congo
 UAE
 Nepal
 Azerbaijan
 Kenya

Division 01

Oil Filtration Equipments

TRANSFORMER OIL FILTRATION MACHINE (OFFLINE)

A. Transformer Oil Centrifuging Machine (Portable Type)

- Capacities available from 500 5000 LPH
- Features:
 - 100% consumable free solid removal centrifuge (Holding capacity 0.5 - 10 Kg)
 - Purifies upto 1 micron
 - Saves consumable cost
 - Achieves BDV, PPM & DGA as per desired results
- Options available:
 - Skid Mounted / Portable





B. Transformer Oil Dehydration Plant (High Vacuum Type)

- Capacities available from 500 12000 LPH
- Features:
 - Purifies upto 1 micron
 - Works in high vacuum dehydration
 - Achieves NAS below 5
 - Achieves PPM upto 5 & BDV upto 70 Kv
 - Maintains dissolved gases upto 1
 - Results to be achieved in upto 3 passes
- Options available:
 - Skid / Vehicle / Trolley Mounted
 - Weather Proof / Open Type







Transformer Oil Dehydration Plant (Ultra High Vacuum Type)

- Capacities available from 500 25000 LPH
- Features:
 - Purifies upto 1 micron
 - Works on ultra high vacuum dehydration technology
 - Helps in maintaining dissolved gases & acidity level
 - Achieves BDV upto 70KV, PPM upto 5 & NAS level below 5
 - Result can be achieved in single pass



- Skid / Vehicle / Trolley Mounted
- Weather Proof / Open Type
- Online Moisture PPM Sensor
- Mounted BDV Test kit
- Online flow meter
- Transformer Evacuation System























Achieve Desired

Easy To Use

Good Return On

Low Operating Ċost

Moisture Contamination

Contamination

Low Maintenance

TRANSFORMER OIL RECLAMATION CUM REACTIVATION PLANT

- Capacities available from 500 5000 LPH
- Features:
 - Purifies upto 1 micron
 - Converts burned black oil into new
 - Reclamation media can be reactivated several times
- Options available:
 - Skid / Vehicle / Trolley Mounted
 - Online Moisture PPM Sensor
 - Mounted BDV Test kit
 - Online flow meter





























TRANSFORMER OIL ONLINE DRYOUT SYSTEM

- Capacities available upto 600 LPH
- Features:
 - The system can be temporarily or permanently installed on a transformer
 - Continuously keeps on removing the moisture from the transformer in charged state
 - PPM level is continuously monitored during filtration process
 - Removes moisture not only from oil but from the insulation as well
 - Easy to replace cartridge
 - Removal solid contamination also and maintains desired NAS levels
- Options available
 - Skid / Portable Type
 - SCADA Compatible PLC
 - Online Dryout System for Onload Tap Changer













Effective Mois ture Removal



Low Maintenance



Low Operating Cost



No Additional Manpower



Online Filtration



Optimized Performance



Plc Screen

TURBINE OIL PURIFICATION PLANT

A. Turbine Oil Centrifugal Filtration Machine

- Capacities available from 500 12000 LPH
- Features:
 - PPM improvement from 2000 to 50 PPM
 - Purifies upto 1 micron
 - Sludge holding capacity from 1 10 Kg
 - Moisture removal centrifuge No consumables
 - Solid removal centrifuge No consumables
- Options available:
 - Portable / Skid Mounted





B. Turbine Oil Purification Machine (Portable Type)

- Capacities available from 500 12000 LPH
- Features:
 - PPM improvement from 15000 to 500 PPM
 - Purifies upto 1 micron
 - Based on high vacuum dehydration
 - Sludge holding capacity from 1 10 Kg
 - Stack Disc Type centrifugal separator
 - Achieves ISO 21/18 to ISO 15/12
- Options available:
 - Skid / Portable Type
 - Open / Weather Proof



C. Turbine Oil Purifier Cum Dehydration Machine

- Capacities available from 500 12000 LPH
- Features:
 - PPM improvement from 15000 to 50 PPM
 - Removes free water as well as dissolved moisture upto required level
 - Based on purifier centrifuge + ultra high vacuum dehydration
 - Solid contamination removal upto 1 micron
 - Achieves ISO 21/18 to ISO 15/12
- Options Available:
 - Skid / Portable Type











Easy To Use



Good Return On Investment



Less Syster Failure



Low Operating Cost



Removal Of Moisture Contamination



Removal Of Solid Contamination



Low Maintenance Cost







HYDRAULIC OIL FILTRATION MACHINE

A. For Solid removal (Mono)

- Capacities available from 500 12000 LPH
- Features:
 - Removes solid contamination
 - Achieves NAS below 5
 - Offers continuous filtration
- Options available:
 - Portable (Castor Wheels) / Skid Mounted



Before Filtration

After Filtration



B. For Solid & Moisture removal (Dual)

- Capacities available from 500 12000 LPH
- Features:
 - Removes solid as well as moisture contamination
 - Achieves NAS below 5
 - Offers continuous filtration
 - Based on filter cartridge and vacuum dehydration
- Options available:
 - Portable (Castor Wheels) / Skid Mounted
 - Free water removal centrifuge





Achieve Desired Parameters

Removal Of

Moisture

Contamination



Easy To Use



Good Return On Investment



Less System



Removal Of Solid Contamination



No More Oil Disposal Concern



Low Operating Cost



















DIESEL PURIFICATION SYSTEM

- Capacities available from 500 12000 LPH
- Features:
 - Removes free water continuously
 - Removes solid particles upto 1 micron
 - Fully automatic operation
 - Continuous water removal centrifuge
 - 100% consumable free solid removal centrifuge
 - Solid removal centrifuge No consumables
- Options available:
 - Portable (Castor Wheels) / Skid Mounted
 - Weather Proof / Open Type
 - Flame proof electrical item





Before Filtration

After Filtration

Water



Removal Of Solid Contamination

Tramp Oil

Separator



Cost

Low Operating Failure Cost Contamination

COOLANT PURIFICATION SYSTEM

- Capacities available from 500 5000 LPH
- Features:

Low Operational

Cost

- Cost-effective cleaning of coolant
- Chips and fine dust removal in 3 stages
- Removes chips upto 200 micron / dust upto 5 micron
- Collects dry chips from the machine and shop floor
- Improves product finish & CNC tool life upto 4 5 times
- Increase the speed, efficiency and safety of machine tools.

Good Return On

Investment

- Continuous separation of Tramp Oil
- Options available:
 - Portable (Castor Wheels)









Lesser Coolant Disposal



Downtime

Low Mainte nance Cost



Machining Chips in Coolant

Low Operational



No More Sticky Tools



Elimination



Few of Our Esteemed Customers











CENTRIFUGAL OIL FILTRATION MACHINE

- Capacities available from 1000 10000 LPH
- Features:
 - Zero wastage of oil
 - Sludge comes out in dry cake form (easy to dispose)
 - Easy to operate
 - Compact in size
 - Fast filtration process
 - No consumable cost required
- Options available:
 - Portable (Castor Wheels) / Skid Mounted
- Application Oil
 - Quenching Oil
 - Lube Oil
 - Gear Oil

- Grinding Oil
- Honing Oil
- Wire Drawing Oil









Easy To Use



Good Return On Investment



Fast Filtration



Low Operating Cost



Low Operational Cost



No More Oil Disposal Concern



Low Maintenance Cost

OIL HANDLING PLANT

- Transformer Evacuation System
 - System is designed with combination of the highly efficient pumping system of a vacuum pump and mechanical booster pump.
 - Can handle large volumes of moisture in transformer's tank.
 - It is a simple "Plug and Play" device.
 - It is easy to maintain and operate.
 - It comprises of a vacuum pump, motor, separator, gauges, valves, and piping, on a portable base.
- Oil Storage Tanks:
 - For storage of various industrial oil
 - Weather proof
 - Leak proof
- Oil Transfer System
 - For transferring of oil from one storage unit to other



Easy to operate









ONLINE CENTRIFUGES

A. Centrifugal Oil Cleaner

COC (Centrifugal Oil Cleaner) is a mechanical device, which purifies oil by centrifugal force action, many times more effectively than any other filtration method so far known in the world.

COC is necessary for the mating surface of machine elements in relative motion which are separated by a very thin oil film formation at contact. The film thickness generally happens to be of the order of microns. If lubricating oil incorporates dirt in the form of contaminants, debris, etc., it will destroy the protecting layer of lubricating film over the mating surfaces of machine parts.

Which will further multiply component wear and premature failure of the system. The big advantage of the centrifuge is its ability to remove very fine particles of the one-tenth of a micron by centrifugal action.

- Flow rate: from 100 LPH to 4500 LPH
- Benefits:
 - Remove paper filter permanently
 - Extends oil life
 - Minimizes wear and tear of engine
 - Increases engine life
 - Reduces down time
 - Minimize maintenance cost
 - Increase contaminant holding capacity
 - No consumable cost
- Applications: Railways, Defence, Automotive, Generators (can be installed on all diesel engines)



COWS (Eliminator -D) is a water separator and fuel filter for HSD/LDO/Hydraulic Oil, etc. An entirely new multistage centrifugal system ensures a 100% solution to the problem of water / moisture and particulate in fuel.

- Benefits:
 - Very high efficiency of water separation from fuel
 - Complete protection of injection pump, nozzles from water, dust, etc
 - Low flow restrictions
- Simple maintenance
- Long life of filter elements
- Applications: Automotive industry, Marine propulsion stationary engines, mining, railway locomotives, construction equipment, compressor set, agricultural equipment, fork lift truck, etc.

















Division 02

Air Handling Equipments

A. PSA Oxygen Generation Plant

- Capacities available from 150 LPM to 1500 LPM
- Features:
 - 24X7 Oxygen availability
 - Zero wastage
 - PLC based fully automatic operation
 - Energy efficient
 - Modular design comparatively less space required

Benefits:

- 50-70% savings every year
- High quality Oxygen with 93% purity level
- Automatic and unattended operation
- Economically viable
- Plug and play type
- Easy to install
- Accessories: Booster for Cylinder filling







24X7 customer support

24x7 Oxygen Supply

Easy To Operate System







Low Maintenance Cost

Low Operational Cost

Safe Delivery C Oxygen

B. PSA Nitrogen Generation Plant

- Capacities available from 5 Nm ³ to 300 Nm ³
- Features:
 - Fully automatic (one switch) operation
 - IoT enabled
 - Easy maintenance
 - Highly reliable
- Benefits:
 - 24X7 high quality nitrogen availability
 - Low Nitrogen production cost
 - High nitrogen purity level of 99.9%
 - Easily customizable
- Easy to use
- Accessories: Booster for Cylinder filling
- Applications: Food packaging, Chemical industry,
 Pharmaceuticals, Aerospace, Steel Plants, Rubber industry,
 Mining, Oil & Gas, Electronics, Manufacturing, etc.





24X7 customer support

24

24x7 Oxygen Supply



tygen Easy To Operate bly System



Low Maintenance



Low Operational Cost



Molecular Sieve (imported from Japan)









C. Nitrogen Inflator

- Features:
 - Pure
 - Nominal Price
 - Varied Specifications:
- Benefits
 - Nitrogen/Sir dual filling system
 - In-built digital counter
 - Inlet & outlet pressure Indicator
 - On demand real time purity indicator
 - High grade filter separation unit



D. Regenerative Air Dryer

- In heavy-duty industrial operations, water vapour in compressed air equipment can lead to premature failure, corrosion, frozen air lines, quality control issues and a range of other operational problems.
 - The system purifies compressed air by absorbing moisture.
 - The valve switch automatic display function, friendly man-machine interface, simple operation, convenient for daily maintenance.
 - Automatic alarm device, fault alarm.
 - High quality adsorbent.
 - Reliable performance check valve, silencer, pneumatic valve and diffuser are available.





Division 03

Cooling Water System

Hydro - Cyclone Separator

In technical collaboration with Euro Consultants & Engineering, Netherlands

- Features:
 - Low pressure drop
 - No moving parts
 - Continuous filtering
 - No filter media
- Environment friendly
- Easy installation
- Low maintenance cost
- High efficiency



- Benefits
 - Removes solids that clog spay nozzles and other small orifices
 - Removes solid from liquid in industrial process and allow reuse of the liquid to prevent solids accumulation in sump and basins
 - Improves efficiency and minimizes liquid loss for effective protection for heat exchangers against fouling.
- Option: Automatic purging









Duplex Filter

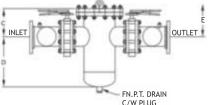
Duplex type filter baskets are designed to be used in fluid handling systems where flow cannot be shutdown for cleaning such as cooling water, pumps, compressor, condenser, salt and fresh water systems, chemical process systems and positive suction head service.

Duplex type filter basket has a single shaft drive to operate the flow diverter valves, baskets are gasketed and securely positioned to prevent particle by- pass. The large capacity basket

provides generous open area ratio

Material of construction:
CS/CI/SS 304/SS 316/216WCB
and tailor made as per customer need.
Sizes of Duplex Filter: 25NB - 600NB













Division 04WASTE MANAGEMENT

Organic Waste Composting Machine

- Processing Capacities: 25 kgs per day to 1000 kgs per day
- Features
 - Fully automatic
 - Temperature controller and sensor
 - Machine operation indicator
- Optional
 - PLC (Touch/Text) Control System
 - Stainless Steel Shredder
 - Water / Moisture Removal Squeezer
 - Conveyor System
- Application area: Housing Society, Railway Stations, Hospitals, Educational Institutes, etc.











Second Generation Continuous
Composting Machine

VIP Toilet

The toilets are manufactured for remote locations for VIP personnel.

- Features
 - 1,2,4,6,8,10 seater options
 - Air conditioned toilets
 - Anti-skid tiles
 - DRDO bio digester
 - Ceramic wash basic
 - Western auto flush seats









Stationary & Mobile Bio Toilet

In technical association with "Defence Research & Development Organization" (DRDO) Ministry of Defence-Govt. of India

- Highly Distinctive Advantages
 - Disposes human waste in a 100% eco-friendly manner
 - Generates colorless, odourless, inflammable biogas (methane) for cooking, water & room heating etc.
 - 100% solid discharge free.
- Models Available:
 - Stationary Bio Toilet: 1 Pan to 10 Pan (customizable)
 - Mobile Bio Toilet: 2 Pan to 16 Pan





100% Eco-Friendly



100% Maintenance Free



100% Solid Discharge Free



Economically Viable



Elimination of Pathogens



Generate Bio-gas



No repeat dosing of Bacteria



Portable on Wheels (option available)



Stationary (op tion available)



Suitable for any type of terrains

FRP / PUF Bio Toilets & Cabins

- Highly distinctive advantages of FRP cabin
 - Are made of good quality fiber reinforced plastic.
 - Are easy to install
 - Readymade option available in Single Pan
 - Option available for inbuilt water and sludge tank
- Highly distinctive advantages of PUF insulated cabin
 - The walls of Bio-toilet are insulated with Polyurethane foam
 - Suitable for hilly and cold regions
 - Readymade option available in 4,2 and single pan



Easy To Install



Inbuilt Sludge Tank (Optional)



Inbuilt Water Tank (Optional)



Suitable For Any Type Of Terrains





Bio Digester Tank

CbS with support of technology, developed and approved by DRDO Ministry of Defence has offered and innovative technology for disposal of human waste in an eco-friendly manner.

Features

- Bio digester tank can function at any atmospheric temperature between -40 to 45
- The bacterial consortium degrades night soil at temp as low as -40 odourless, inflammable biogas contacting 50-70% methane.



 Bio-digester can be designed of mild steel and fiber reinforced plastic (FRP). Bio toilets are cylindrical structure with the provision of inlet for human waste and outlet for biogas. Temperature in these bio toilets is maintained between 5 to 30 0C.



Biogas (Meth -



Can Be Easily Connected To Existing Toilet



Functions Between -40deg C To 45deg C



and Mild Steel



No Bacteria Topup Required



No Bad Smell



No Human Hanling Of Waste



No Negative Impact On Environment



Solid Waste Reduction



Waste Water Can Be Used For Irrigation Purpose

Smart Toilet

Features:

- Fully unmanned & automated operations
- Enhanced cleanliness through auto flushes & floor washing
- Integrated with IoT technologies for remote monitoring health status
- Easy to install pre-fabricated steel structure
- Energy conserving & environment friendly
- Dedicated Mobile / Web app for remote monitoring
- Stainless steel platform & closet (Indian / western)
- Automated interior light & exhaust fan
- Water low indication
- Power backup facility
- Self cleaning & washing mechanism

- Applications: House, resorts, restaurants, railway, hotels, homestays, houseboats, camping sites, etc.
- Options available:
 - Readymade option from 1 pan to 10 pan

Bio Sewage Treatment Plant

SEWAGE TREATMENT PLANT (BIO-STP)

BLACK WATER - SEWAGE WATER FROM COMMUNITY (PORTIDEAL TOILETS. GREY WATER - WASTE WATER FROM MILLIPLEYES / ROUSING COLONIES / INDIVIDUAL BALSES

- Technology behind Bio-STP & Feature:
 - This technology is suitable for any area and application in India
 - The process under this technology culminates into treated effluent which is free from Pathogens and is also environmentally acceptable.
 - No operational cost and maintenance charges.
- The technology has major three components:
 - Low temperature active inoculums / AMI
 - Bio-Digesters
 - Reed-Bed
- Saves / Conserves:
 - Water, energy, space, environment and promotes hygiene
- Comparison between Normal STP and Bio STP:

Particulars	Normal STP	Bio STP
Design	Design is complex	Very simple design & easy to work based on DRDO, Bio Digester Technology
Installation Cost	Very high	Far less
Maintenance Cost	Maintenance required. Additional running cost incurred in the form of man power & electricity	Maintenance not required. It recovers its cost within 10 years
Space Required	Larger space requirement. Above the ground construction	Very small space required due to underground construction
Hygiene	Hygienic but give bad smell	More hygienic that normal STPs
Diseases	Water borne diseases spread by the effluent sewage	All pathogens are eliminated inside the Bio Digester Tank
Suitability	Suitable for most terrain	Suitable for all terrain
By-products Generated	Lesser biogas in comparison the Bio STP	Relative large amount of Biogas & potable water. Biogas can be used in CNG generation
Power / Electricity	Required electricity	No electricity required (Saves lots of money)





























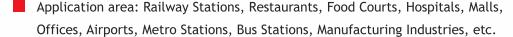




Waste Compaction Bin

- Processing Capacities: 5 to 20 liters
- Technical Details:
 - Volume reduction: 30-80%
 - Compaction ratio: 6:1
 - Control system: PLC based
- Features:
 - Inbuilt hydraulics
 - Stainless steel and Mild steel body option available
 - Proximity Sensor

- Compaction cycle: 45 sec
- DC/AC operated versions
- 110V / 220V / 440V Single phase & 3 phase versions
- Control Panel
- Fully automatic
- Separate door for waste input and compacted waste removal







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Toll Free No.: 1800-212-4645



+91-120-2341166



info@cbsenergy.com, cbsenergy@gmail.com



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Manufacturing Unit: H-5/6, Site-5, UPSIDC Industrial Area, Kasna, Greater Noida, U.P. - 201310 Registered Office: 110-111, 1st floor Rishabh Ipex Mall, Opp. Max Hospital, I. P. Extension, Patparganj Delhi, India Pin: 110092