BUILDWELL
A new Environmental Concept...

SEMINAR AT
CENTRE FOR SCIENCE AND
ENVIRONMENT

ON DATED – 18TH JULY, 2018
AT NEW DELHI

SAHJANAND FLY ASH BRICKS PLANT PVT. LTD.

Bhuj – Gujarat - India

www.buildwellindia.com
OUR INSPIRATION...

OUR FRIEND PHILOSOPHER GUIDE

SHREE SADGURU DHYANI SWAMIJI

www.buildwellindia.com
100% INDIAN MANUFACTURING MACHINE

MAKE IN INDIA

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We, BUILDWELL® are paramount manufacturers and exporters of FLYASH BRICKS – BLOCKS - PAVERS Making Automatic Machines. Buildwell is the brand of Sahjanand FlyAsh Bricks Plant Pvt. Ltd. located in Bhuj – Gujarat. We have expertise in Machinery Production which is considered for Green Housing Projects worldwide. Our machines are manufactured using highest quality raw material and higher technology at our high-end manufacturing unit in observance with international quality standards. We design and develop these machines as per the requirement of the clients, as we believe in meeting the precise requirements while maintaining the international quality standard at the same time. Technically advanced manufacturing unit, highly competent staff, ethical business policies and timely delivery services are the backbone of our company. Our loyal clients based in India and foreign.

We have a technically advanced manufacturing unit with modern technology. The manufacturing unit is well equipped with high end latest machinery, computerized design unit, laboratory, conference hall for arranging business meet – cum – technology based meet to promote and/or training for eco friendly product.

We have highly experienced and diligent team of experts who assists us in offering high quality products. Our Research and Development team has remained connected with global markets. Our professionals have expertise in all areas and can fully support our equipment, providing parts, service, installation and training to Indian and Global customers.
Mr. RAJESH BHATT  
(Managing Director)  

He is looking after Administration & Finance Department of the company and having experience of 12 years service as a manager in DENA BANK. Presently, he is the president of “THE CHAMBER OF COMMERCE AND INDUSTRIES-KUTCH”

Mr. NILESH BHATT  
(Director)  

He is a founder of the company and started business from ZERO and thinks out of the box. His vast experience in innovative thinking on marketing, always boost company to grow and looking after marketing segment of the company.

Er. NIKUNJ BHATT  
(Technical Director)  

He is a civil engineer by degree, looking after the entire machine production unit. His civil engineering knowledge helps research and development in the machine production to make them working more efficient and hassle free. He is handling multi-skills concepts viz. civil, mechanical and electrical engineering.
VAST EXPERIENCE AS A BRICK MANUFACTURER
VAST EXPERIENCE AS A BRICK MANUFACTURER
INFRASTRUCTURE

ENVIRONMENT FRIENDLY BUILDWELL CAMPUS

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As you are aware, the use of coal for power generation results in an increased quantum of fly ash production, which has reached about 100 million tonnes per year. All out efforts are needed to utilize this fly ash not only from environmental considerations, but also to avoid land usage for fly ash dumping. Though there has been a steady progress in fly ash utilization from 1990, we have a long way to go to reach the target of 100 per cent fly ash utilization. It is reported that the agricultural increase of grains is around 15 per cent, green vegetables 35 per cent and root vegetables 50 per cent, when fly ash is mixed with soil. Toxicity tests have proved that there is no toxic element due to fly ash. But it has higher nutrients due to increased availability of iron and calcium. Fly ash can become a wealth generator by making use of it for producing ‘green building’ materials, roads, agriculture etc. Full utilization of the generating stock will provide employment potential for three hundred thousand people and result in a business volume of over Rs.4,000 crore.

- Late Ex-President A P J Abdul Kalam
  (eve of the country’s 56th Republic Day)
Flyash Utilization Promotion meeting with Late Dr. A. P. J. Abdul Kalam in year 2002
KEY BENEFITS OF FLYASH BRICKS

- Light Weight
- Reduce Construction Cost
- Long Lifespan
- Noise Insulation
- Moisture Resistance
- High Strength
- Thermal Insulation
- Uniform Shape
- Environment Friendly
- Absorbs Less Water

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FLOW CHART FOR BRICK-BLOCK-PAVER PRODUCTION

RAW MATERIAL
- Gypsum
- Lime
- Cement
- Sand/Stone Dust
- Fly Ash

First Day Stacking Yard

Curing Yard

Storage

Lab Testing

Dispatch

Water Tank

Mixer

Storage Hopper

Conveyor

Hydraulic Press

Rail for Green Bricks

Shifting Trolley

Truck

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Raw Material Storage

Use the Flyash, sand/stone dust, cement as per IS standard. Keep all material in a covered storage area. Screening of raw material should be done before mixing process.

Mixing of Raw Material

Follow the right process of mixing the material i.e. First put sand/stone-dust, secondly flyash then cement should be mix in part (ideal - 4 parts) during mixing. Water should be put in mixer after all raw material.

Storage Hopper for Conveying Materials

After mixing of raw material in Pan Mixer, mixed material will flow in storage hopper and conveying to hydraulic press.

Hydraulic Pressing

Mixed material transferred to a machine’s storage hopper. Here, material will shape into bricks by the processing of hydraulic pressing and vibrator.

Output of Green Bricks

Ready green bricks will convey via rail to brick shifting trolley without any jerks for shifting to the first day stacking yard.
<table>
<thead>
<tr>
<th>Step</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Curing of Bricks</td>
</tr>
<tr>
<td>6</td>
<td>Storage</td>
</tr>
<tr>
<td>7</td>
<td>Lab Testing</td>
</tr>
<tr>
<td>8</td>
<td>Dispatch</td>
</tr>
</tbody>
</table>

**First Day Stacking**
Ready green brick pallets transferred to cover shed stacking yard for 1 day stacking. Hard strata technique must be preferred for avoiding breakages of bottom bricks.

**Curing of Bricks**
After the first day stacking, ready green bricks shifted in curing yard. Bricks will be arranged in a zigzag pattern for proper maintaining air pockets and curing with water for 7 days in two times a day. To avoid waste of water, use water recycling method.

**Storage**
After completing curing process, brick takes dry curing for 3-5 days. Please Note, it is largely depends on local climatic conditions.

**Lab Testing**
After completion of the curing procedure of 9 days, bricks should be tested in Laboratory and it should be as per IS 12894.

**Dispatch**
After completion of the dry curing process, bricks are ready for dispatch for construction purpose.
FIRST DAY BRICKS STACKING

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FIRST DAY BRICKS STACKING
CURING OF BRICKS
CURING OF BRICKS

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STORAGE OF BRICKS
STORAGE OF BRICKS
STORAGE OF BRICKS

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QUALITY PRODUCTS

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QUALITY PRODUCTS

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PROJECTS WITH FLY ASH BRICKS

MAGARPATTA CITY - PUNE
USED FLYASH BRICKS ONLY

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PROJECTS WITH FLY ASH BRICKS
PROJECTS WITH FLY ASH BRICKS

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CHECKLIST/SELECTION CRITERIA WHILE SELECTING A NEW MACHINE

➢ BUDGET

➢ LAND AVAILIBILITY

➢ RAW MATERIAL & LABOUR AVAILIBILITY NEAR BY PROPOSED AREA
CHECKLIST/SELECTION CRITERIA WHILE SELECTING A NEW MACHINE

➢ NEAR BY MARKET FOR FINAL PRODUCT

➢ MARKET PERFORMANCE OF MACHINE MANUFACTURER WHICH INCLUDES

- ON TIME DISPATCH/DELIVERY
- PERFECT INSTALLATION/ERECTION OF MACHINE
- AFTER SALES SERVICES
- GENUINE SPARES AND PARTS USED BY MANUFACTURER
- SERVICE NETWORK
- TECHNICAL GUIDELINES OF FINAL PRODUCT
RANGE OF MACHINES BY BUILDWELL

➢ SEMI AUTOMATIC MACHINES

➢ AUTOMATIC MACHINES

➢ FULLY AUTOMATIC MACHINES

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**BW-212 (3IN1)**
**SEMI AUTOMATIC MACHINE**

<table>
<thead>
<tr>
<th>TOTAL ELECTRIC POWER REQUIRED</th>
<th>14 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN POWER REQUIRED</td>
<td>2 SKILLED, 3 UNSKILLED</td>
</tr>
<tr>
<td>PRODUCTION CAPACITY</td>
<td>4000-5000 BRICKS PER SHIFT</td>
</tr>
<tr>
<td>AREA REQUIRED</td>
<td>2000 SQ. FT</td>
</tr>
</tbody>
</table>

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**BW-117**  
**6 BRICKS AUTOMATIC MACHINE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL ELECTRIC POWER REQUIRED</td>
<td>30 HP</td>
</tr>
<tr>
<td>MAN POWER REQUIRED</td>
<td>2 SKILLED</td>
</tr>
<tr>
<td></td>
<td>10 UNSKILLED</td>
</tr>
<tr>
<td>PRODUCTION CAPACITY</td>
<td>10,000 BRICKS</td>
</tr>
<tr>
<td></td>
<td>PER SHIFT</td>
</tr>
<tr>
<td>AREA REQUIRED</td>
<td>1 ACER</td>
</tr>
</tbody>
</table>

www.buildwellindia.com
BW-117
6 BRICKS AUTOMATIC MACHINE

www.buildwellindia.com
BW-120
9 BRICKS AUTOMATIC MACHINE

<table>
<thead>
<tr>
<th>TOTAL ELECTRIC POWER REQUIRED</th>
<th>45 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN POWER REQUIRED</td>
<td>2 SKILLED 10 UNSKILLED</td>
</tr>
<tr>
<td>PRODUCTION CAPACITY</td>
<td>15,000 BRICKS PER SHIFT</td>
</tr>
<tr>
<td>AREA REQUIRED</td>
<td>1 ACER</td>
</tr>
</tbody>
</table>

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BW-120
9 BRICKS AUTOMATIC MACHINE

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**BW-119 – 3 IN 1 BRICKS – BLOCKS AND PAVERS AUTOMATIC MACHINE**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Electric Power Required</td>
<td>45 HP</td>
</tr>
<tr>
<td>Man Power Required</td>
<td>2 Skilled</td>
</tr>
<tr>
<td></td>
<td>10 Unskilled</td>
</tr>
<tr>
<td>Production Capacity</td>
<td>15,000 Bricks PER SHIFT</td>
</tr>
<tr>
<td>Area Required</td>
<td>1 Acer</td>
</tr>
</tbody>
</table>

**Image Description:**
- The machine is an automatic brick-making machine with a total electric power requirement of 45 HP.
- It requires 2 skilled and 10 unskilled man power.
- The production capacity is 15,000 bricks per shift.
- The area required is 1 acre.

**Website:**
[www.buildwellindia.com](http://www.buildwellindia.com)
BW-119 - 3 IN 1 BRICKS – BLOCKS AND PAVERS AUTOMATIC MACHINE

www.buildwellindia.com
<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL ELECTRIC POWER REQUIRED</td>
<td>60 HP</td>
</tr>
<tr>
<td>MAN POWER REQUIRED</td>
<td>2 SKILLED 10 UNSKILLED</td>
</tr>
<tr>
<td>PRODUCTION CAPACITY</td>
<td>20,000 BRICKS PER SHIFT</td>
</tr>
<tr>
<td>AREA REQUIRED</td>
<td>2 ACER</td>
</tr>
</tbody>
</table>

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BW-130-12 BRICKS
FULLY AUTOMATIC MACHINE

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MACHINE SET UP WITH AUTOMATION
MACHINE SET UP WITH FULLY AUTOMATION
WITH ADDITIONAL ATTACHMENT
**WHY SELECTING BUILDWELL???

USEFUL INPUTS FOR SOURCES OF FLY ASH / RAW MATERIAL NEAR BY CLIENTS FROM BUILDWELL**

- We Also Help You To Locate Proper Sources Of Fly Ash Nearby Your Area.
- Buildwell Will Also Suggest Alternates For Economical Raw Material Available Near By Your Location.
- Buildwell Also Recommends Free Sampling of Quality Check of Raw Material Available near Client’s Area.
- Buildwell Also Promote Confidence Of Client By Making Quality Fly Ash Bricks, Block Or Pavers With Their Own Raw Materials. (Material Should Be Supplied By Interested Clients At Our Unit.)
- It Will Create More Confidence As Well As 3 Dimensional Idea Of Product What You Are Going To Produce With Our Machine
QUALITY POLICY

We strive to create the best value for our customers by delivering the most reliable and effective products in the marketplace.

- Continuously monitors that quality of our products.
- Ensure strict compliance to standards and product specification.
- Regularity benchmarks our product quality with customer requirements and others in the marketplace.
- Ensure that all involved in production are adequately trained in the performance of their tasks.

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TRAINING FACILITY AT BUILDWELL UNIT

TRAINING INCLUDES

- Product Knowledge
- Raw Material Knowledge
- Testing of Raw Material
- Mix Design OR Recipe of Product
- Machine Operation Training
- Machine Maintenance Training
- Proper Look After of Machine
- Quality Production Training
- Final Product Laboratory Training

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TRAINING FACILITY AT BUILDWELL UNIT

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TRAINING FACILITY AT BUILDWELL UNIT
TRAINING FACILITY AT BUILDWELL UNIT
LABORATORY TESTING OF RAW MATERIAL AS WELL AS FINAL PRODUCT
APPROPRIATE SUPPORT BY BUILDWELL TO OUR VALUED CLIENTS

✓ BUILDWELL PROVIDE IDEAL ARCHITECTURAL CIVIL LAYOUT PLAN AS PER CLIENT’S SITE MAP

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BUILDWELL TECHNICAL TEAM WILL SUPPORT FOR PROPER PRESENTATION DURING MACHINE OPENING CEREMONY
ON SITE SUPPORT BY BUILDWELL TEAM
ON SITE SUPPORT BY BUILDWELL TEAM
ON SITE SUPPORT BY BUILDWELL TEAM
✓ BUILDWELL TEAM ALSO PRODUCE SAMPLE PRODUCTION FOR PROMOTION & MARKETING AT THE TIME OF INAUGURATION
ACC is a trendsetter in environmental friendly cements. These blended cements consume less energy leading to a lower overall carbon footprint.

ACC participates, in a small but meaningful way, in the process of Nation Building through the supply of cement and concrete to mega structures that are proud testaments standing the test of time.
Do not override or interfere with any safety provision nor allow anyone else to override or interfere with them.

Personal Protection Equipment (PPE) rules, applicable to given task, must be adhered to at all time.

Isolation and Lock out procedures must always be followed.

No person may work if under the influence of alcohol and drugs.

All injuries and incidents must be reported.
Our commitment on safety is the elimination of all injuries, occupational illness and preventable vehicular incidents.

Apart from this, we will provide everyone in the premises, including visitors, a safe and healthy work environment.
SAFETY BY BUILDWELL

M.D. WITH HEAD STAFF OF ACC CEMENT
SAFETY BY BUILDWELL

SAFETY @ BUILDWELL MANUFACTURING UNIT

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SAFETY BY BUILDWELL

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SAFETY @ BUILDWELL MANUFACTURING UNIT

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We believe that protecting the environment is integral to sustainable development.

We will operate as an environmentally and socially responsible business.

We will ensure optimum use of resources including energy and water.
ENVIRONMENTAL POLICY

MAXIMUM USE OF SOLAR ENERGY

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ENVIRONMENTAL POLICY

RAINFALL HARVESTING

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WORKING MACHINES ON SITE
WORKING MACHINES ON SITE

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WORKING MACHINES ON SITE
WORKING MACHINES ON SITE

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WORKING MACHINES ON SITE
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To promote initiative of Skill India, we provides operation, maintenance and lab training and invited various engineering colleges and ITI’s student for on-site training at our production unit.
OUR CONTRIBUTION

Karnal Concrete Products, inaugurated by Ms. Annalisa Giagante (Head Innovations - Holcim Ltd., Zurich) and Mr. Michael Scharph (Head Sustainable Construction - Holcim Ltd. Zurich)

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Colonelganj Concrete Products, inaugurated by Shri Yogesh Pratap Singh (MLA, Colonelganj), Mr. Ajay Kumar Upadhyay, IAS (DM-Gonda, UP), Mr. Francois Perrot (Head Affordable Housing, Ladargeholcim-Switzerland), Mr. Michael Scharpf (Head Sustainable Construction, Ladargeholcim-Switzerland)
VISIT TO ITALY SP. BY GOVT. OF INDIA

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EXHIBITIONS & SEMINARS

Combustion Products: Technology and Management
23-25 February, 2007
Hotel Taj Bengal, Kolkata

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SEMINAR ON
FLY ASH UTILIZATION IN BRICK MAKING
02 - 03 March, 2006
Organized by
GUJARAT BRICKS MANUFACTURERS' FEDERATION
19-21, Ajanta Commercial Centre, 4th Floor
Opp. Gujarat Vidyapith, Aslam Road, Ahmedabad - 380 014.

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EXHIBITIONS & SEMINARS

Green Enterprise Mela
30th January 2018
Patna, Bihar

Organised by:
Development Alternative
& Environment Enterprises Development Foundation (DEED)

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EXHIBITIONS & SEMINARS

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EXHIBITIONS & SEMINARS
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STAFF MOTIVATION PROGRAMM BY BUILDWELL
an initiative launched by the Government of India to encourage multinational, as well as national companies to manufacture their products in India.

an action plan aimed to boost entrepreneurship and encourage start ups with jobs creation

an urban renewal and retrofitting program by the Government of India with a mission to develop 100 cities all over the country making them citizen friendly and sustainable

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The government for building 11.11 crore toilets in rural India over the next five years.

“Swachhta Udyami Yojana” initiated by govt. to provide concessional loan to build community toilet projects and sanitation related vehicles to collect the garbage.

what we offer

We can build 3 to 4 toilets in a day with our machine.
The total construction is ready to build by precasted concept.
OUR VALUED CLIENTS...

✓ ACC CEMENTS
✓ TATA PROJECTS
✓ RELIANCE POWER
✓ ELECTROTHERM
OUR VALUED CLIENTS...

✓ MAGARPATTA
✓ KOLKATA BRICKS
✓ DROLIA STEEL
✓ MONO STEEL
✓ SRADDHA ISPAT
✓ ADARSH FLY ASH BRICKS

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OUR VALUED CLIENTS...

✓ EKTA BRICKS – LUCKNOW, U.P.
✓ GAJANAN COMMERCIAL – GUWAHATI, ASSAM
✓ UJJALA BUILDETECH – SILCHAR, ASSAM
✓ P. B. BRICKS INDUSTRY – KOKRAJAR, ASSAM
✓ DIAMOND GROUP – KOLKATA, W.B.
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THANK YOU

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