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AMIT PAPER
CONSULTANTS & ENGINEERS

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PAPER ENGINEERS PVT.LTD



PRODUCT CATALOGUE

2025

Your Trusted Partner for Complete Paper Mill Solutions

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A BRIEF STORY ABOUT THE COMPANY

About Us

Amit Paper Consultants & Engineers is a full-service engineering, consultancy, and machinery supply firm for the paper & board/paper mill sector. Located in Ahmedabad, Gujarat, we specialize in designing, supplying, installing, commissioning, and servicing complete paper plants, as well as key machinery.

With decades of industry experience, Amit Paper Consultants & Engineers has successfully executed numerous paper mill projects across India and international markets. Our expertise covers the entire project lifecycle — from design and engineering to supply, erection, and commissioning of complete paper plants.

We bring together technical knowledge, practical field experience, and a deep understanding of mill operations, ensuring every project we deliver is efficient, reliable, and built for long-term performance.

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Mission

To be a trusted partner of choice for paper mills — offering optimized, environmentally responsible, and cost-effective solutions.

Vision

To be a globally trusted partner in sustainable paper manufacturing by delivering innovative, efficient, and eco-friendly engineering solutions that shape the future of the pulp and paper industry.

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Our Value

Why Choose Us?

- TURNKEY EXECUTION FROM CONCEPT TO COMMISSIONING
- IN-HOUSE DESIGN, ENGINEERING, FABRICATION, AND PROJECT MANAGEMENT
- ABILITY TO SUPPLY BOTH NEW MACHINERY AND SECOND-HAND / REFURBISHED PARTS & UNITS (USED MACHINERY / INDUSTRIAL UNITS)
- EXPERIENCE ACROSS GRADES (KRAFT, BOARD, TISSUE, SPECIALTY)
- FOCUS ON SUSTAINABLE & ENERGY-EFFICIENT SOLUTIONS

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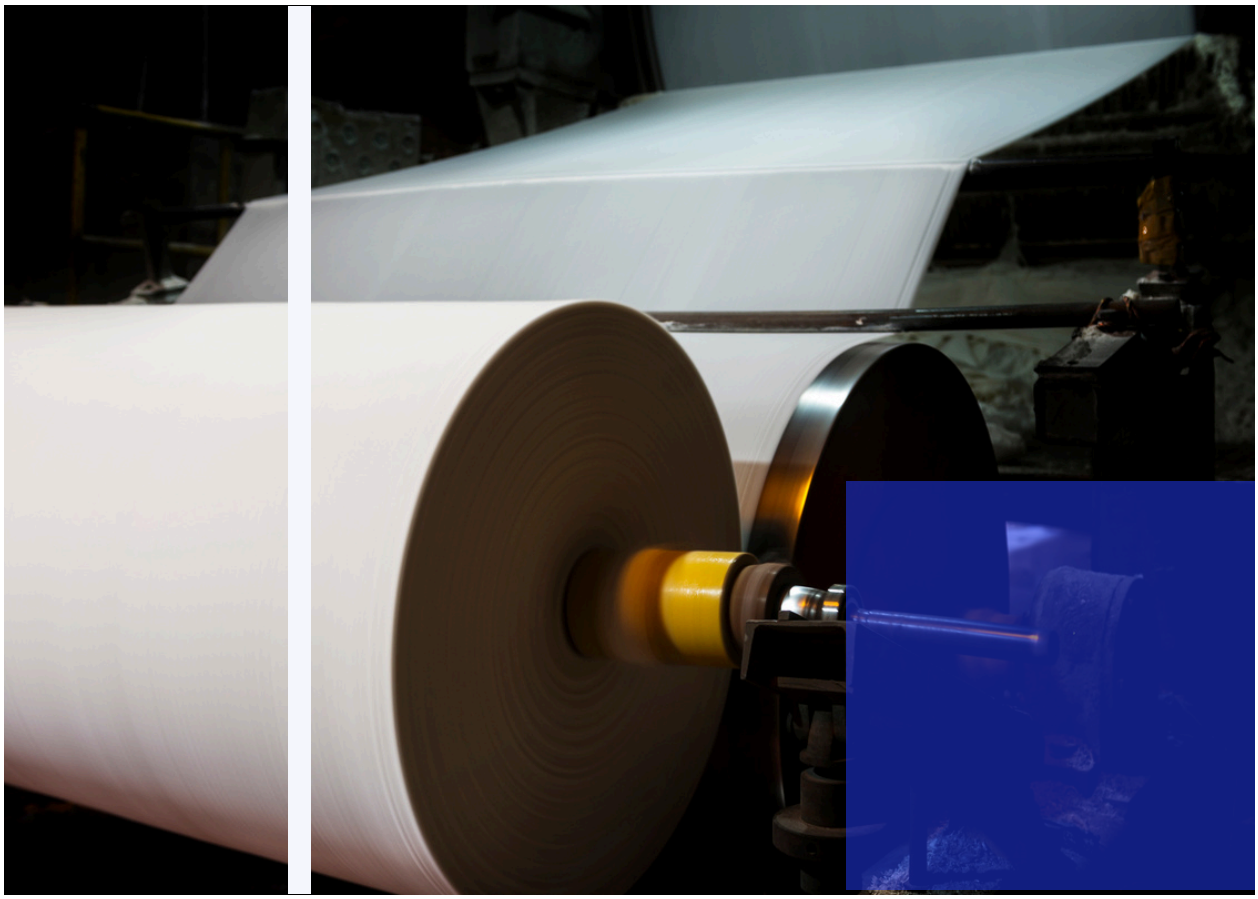
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INDUSTRY OVERVIEW & TRENDS (WHY NOW?)

MARKET GROWTH & DEMAND DRIVERS

- The Indian pulp & paper market is expanding rapidly; expected to grow at ~13.4 % CAGR (2025–2032) in value.
- Packaging & paperboard segment is the primary growth driver, mainly due to e-commerce, FMCG, and regulatory pressure on plastics.
- In India, paperboard & packaging accounted for ~65 % of total paper/board/newsprint by volume.
- The industry is rebounding: margin pressures from import competition and raw material volatility are easing; margins expected to improve ~2 % by FY26.

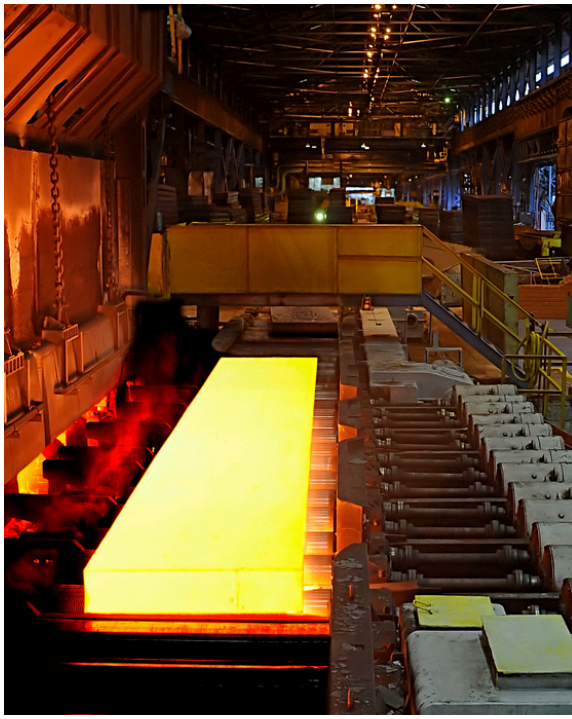
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KEY TRENDS SHAPING THE INDUSTRY (FOR 2025 & BEYOND)

DIGITAL & SMART MILL TECHNOLOGIES

IoT sensors, predictive maintenance, automation, data analytics to boost throughput & reliability.



ALTERNATIVE / NON-WOOD FIBERS & RECYCLING TECH

using agricultural residues, waste paper, bamboo, etc., to reduce raw wood dependence.



SUSTAINABILITY & CIRCULAR ECONOMY FOCUS

Using agricultural residues, waste paper, bamboo, etc., to reduce raw wood dependence.

FLEXIBLE & SPECIALTY GRADES

Customization in GSM ranges, specialty papers (coated, barrier, packaging)

GLOBAL & REGIONAL SUPPLY CHAIN CHALLENGES

trade tensions, fluctuating pulp import costs, logistics constraints

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WHAT WE DO / OUR SERVICES & CAPABILITIES

Service	Description / Key Features
Turnkey Project Execution	Complete plant setup: civil, erection, piping, wiring, testing, commissioning
Feasibility & Consulting	Market studies, financial modelling, technical feasibility, and capacity planning
Process & Detailed Engineering	Pulping, stock prep, chemical systems, dryer groups, finishing, control systems
Machinery Supply & Fabrication	New machines, spare parts, retrofits, rebuilds, imported / indigenous supply
Modification / Modernization / Upgradation	Upgrading line speed, efficiency, energy systems, and retrofitting with newer tech.
After-Sales, Maintenance & Service	Spare supply, maintenance contracts, troubleshooting, and technical support
Manpower Supply	Skilled technicians, operators, and engineers to support mill operations.
Trading / Buying & Selling Machinery / Units	Sourcing used machinery or industrial units, resale, and parts exchange.

Service	Description / Key Features
Turnkey Project Execution	Complete plant setup: civil, erection, piping, wiring, testing, commissioning
Feasibility & Consulting	Market studies, financial modelling, technical feasibility, and capacity planning
Process & Detailed Engineering	Pulping, stock prep, chemical systems, dryer groups, finishing, control systems
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OUR WORKFLOW / PROCESS:

1. FEASIBILITY STUDY
2. DESIGN & ENGINEERING
3. MACHINERY SUPPLY
4. INSTALLATION
5. COMMISSIONING
6. OPERATION SUPPORT
7. CONTINUOUS IMPROVEMENT.

MACHINERY RANGE



PAPER MACHINES

RANGE: KRAFT, BOARD, TISSUE, WRITING & PRINTING, AND SPECIALTY PAPERS (VARIOUS GSM RANGES).

DESCRIPTION: OUR PAPER MACHINES ARE DESIGNED FOR HIGH EFFICIENCY, STABILITY, AND SUPERIOR SHEET FORMATION. THEY ARE CUSTOMIZABLE FOR MULTIPLE GRADES, GSM RANGES (FROM 40 TO 600 GSM), AND DECKLE WIDTHS UP TO 6 METERS.

TECHNICAL HIGHLIGHTS:

- SPEED RANGE: 150–700 M/MIN
- DECKLE WIDTH: UP TO 6,000 MM
- PRODUCTION CAPACITY: 30–400 TPD
- AUTOMATION: PLC / DCS INTEGRATED

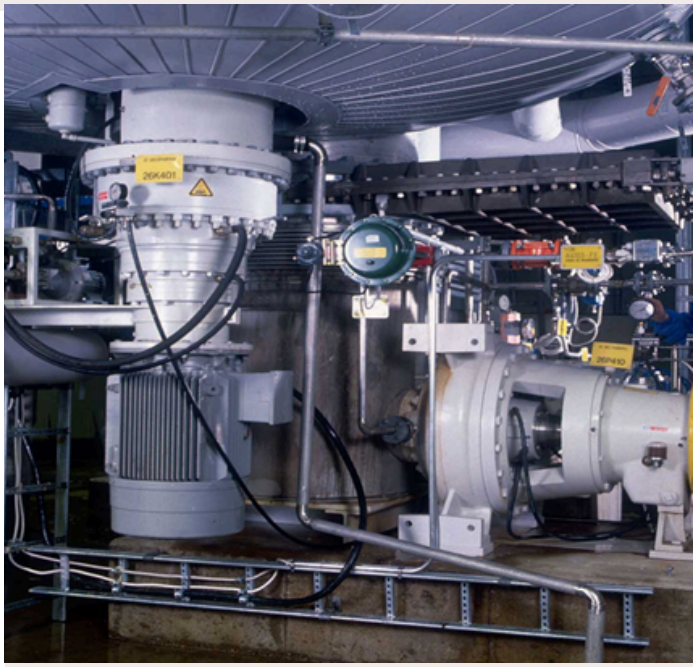
STOCK PREPARATION SYSTEMS

INCLUDES: PULPERS, REFINERS, CLEANERS, PRESSURE SCREENS, DE-INKING SYSTEMS.

DESCRIPTION: DESIGNED FOR EFFICIENT PULP HANDLING AND FIBER DEVELOPMENT, OUR STOCK PREPARATION LINES ENSURE OPTIMUM FIBER QUALITY, MINIMAL REJECTS, AND CONSISTENT STOCK FLOW FOR ANY GRADE.

TECHNICAL HIGHLIGHTS:

- PULPING CAPACITY: 10–400 TPD
- CONSISTENCY: 3–5%
- ENERGY-EFFICIENT ROTOR AND REFINER PLATES
- ·COMPLETE AUTOMATION FOR FLOW AND CONSISTENCY CONTROL





WET END EQUIPMENT

INCLUDES: HEADBOXES, WIRE SECTIONS, FORMING TABLES.

DESCRIPTION: THE WET END ENSURES EXCELLENT SHEET FORMATION AND BASIS WEIGHT CONTROL. OUR HEADBOXES DELIVER UNIFORM FIBRE DISTRIBUTION AND TURBULENCE CONTROL FOR CONSISTENT SHEET QUALITY.

TECHNICAL HIGHLIGHTS:

- HYDRAULIC HEADBOX FOR UNIFORM JET PROFILE
- STAINLESS-STEEL WIRE SECTION FRAMES
- SUCTION COUCH ROLLS AND FORMING BOARD ASSEMBLIES

MACHINERY RANGE



PRESS & DRYER SECTIONS

INCLUDES: PRESS ROLLS, DRYER CYLINDERS, FELTS, AND FABRIC SYSTEMS.

DESCRIPTION: DESIGNED FOR HIGH DEWATERING EFFICIENCY AND SMOOTH SHEET DRYING, OUR PRESS AND DRYER SECTIONS REDUCE ENERGY CONSUMPTION WHILE MAINTAINING EXCELLENT PAPER SURFACE FINISH.

TECHNICAL HIGHLIGHTS:

- SPEED RANGE: 150–700 M/MINPRESS LOAD: UP TO 120 KN/M
- DRYER CYLINDER PRESSURE: 3.5–6 BAR
- STEAM & CONDENSATE SYSTEMS INTEGRATED
- SUITABLE FOR HIGH-SPEED OPERATIONS

CALENDARS & SIZE PRESS

INCLUDES: SURFACE SIZING, COATING, AND CALENDARING UNITS.

DESCRIPTION: WE OFFER SURFACE TREATMENT SYSTEMS FOR GLOSS, SMOOTHNESS, AND STRENGTH ENHANCEMENT, TAILORED FOR WRITING, PRINTING, AND PACKAGING GRADES.

TECHNICAL HIGHLIGHTS:

- SIZE PRESS TYPE: POND / FILM
- CALENDAR STACK: 2–10 ROLLS
- COATING THICKNESS CONTROL UP TO 2 GSM ACCURACY





REWINDERS & CUTTERS

INCLUDES: SLITTING, REWINDING, AND SHEETING SYSTEMS.

DESCRIPTION: OUR REWINDERS ENSURE PRECISE ROLL FORMATION, TENSION CONTROL, AND CLEAN EDGE CUTTING FOR FINAL FINISHING.

TECHNICAL HIGHLIGHTS:

- SLITTING WIDTH: CUSTOMIZABLE
- ROLL DIAMETER: UP TO 1500 MM
- LINE SPEED: UP TO 1000 M/MIN

MACHINERY RANGE



AUTOMATION & CONTROL SYSTEMS

INCLUDES: PLCS, SCADA, SENSORS, DRIVES, AND MONITORING SYSTEMS.

DESCRIPTION: WE INTEGRATE MODERN AUTOMATION FOR SEAMLESS PROCESS CONTROL, ENERGY OPTIMIZATION, AND PREDICTIVE MAINTENANCE.

TECHNICAL HIGHLIGHTS:

- PLC & SCADA INTEGRATION
- DCS COMPATIBILITY
- REAL-TIME DATA LOGGING
- CONSISTENCY AND FLOW SENSORS FOR ALL PROCESS SECTIONS

AUXILIARY SYSTEMS

INCLUDES:BOILERS, COGENERATION PLANTS, EFFLUENT TREATMENT PLANTS, PUMPS, COMPRESSORS, AND UTILITIES.

DESCRIPTION: OUR AUXILIARY SYSTEMS SUPPORT SUSTAINABLE MILL OPERATION WITH EFFICIENT POWER, STEAM, AND WATER MANAGEMENT.

TECHNICAL HIGHLIGHTS:

- BIOMASS & STEAM BOILERS UP TO 50 TPH
- EFFLUENT TREATMENT CAPACITY: UP TO 500 M^3/DAY
- AIR & VACUUM SYSTEMS WITH HIGH RELIABILITY
- WATER RECYCLING SYSTEMS FOR ZLD COMPLIANCE



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SPECIAL EXPERTISE

At Amit Paper Consultants & Engineers, we go beyond standard engineering to deliver innovative, sustainable, and customized solutions for the modern paper industry. Our specialized capabilities are designed to help mills achieve higher productivity, resource efficiency, and environmental compliance.

Recycled Paper Plant Solutions

We design and supply recycled fiber-based paper plants that transform waste paper into high-quality kraft, board, and packaging grades. Our systems ensure optimized fiber recovery, minimal rejects, and consistent sheet formation, enabling mills to achieve both economic and environmental benefits.

Energy-Efficient & Water-Saving Systems

We design and supply recycled fiber-based paper plants that transform waste paper into high-quality kraft, board, and packaging grades. Our systems ensure optimized fiber recovery, minimal rejects, and consistent sheet formation, enabling mills to achieve both economic and environmental benefits.

Effluent Treatment Solutions (ETP / ZLD)

We provide comprehensive effluent treatment and zero-liquid discharge (ZLD) systems tailored for paper mills. These systems ensure compliance with environmental norms and promote clean, water-efficient operations by recycling and reusing process water.

Specialty Paper & Eco-Friendly Grades

We have proven expertise in developing specialty paper plants such as coated, filter, decor, and food-grade papers using eco-friendly formulations. Our advanced process designs maintain strength, surface finish, and print quality to meet niche market needs.

Customized Machinery Design

Every mill has unique needs — that's why we design tailor-made machinery and layouts to match your capacity, grade, and process requirements. Our in-house engineering team ensures optimal performance, easy maintenance, and long equipment life.

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INDUSTRIES WE SERVE

At Amit Paper Consultants & Engineers, we cater to every segment of the pulp and paper industry — from packaging and hygiene products to high-value specialty grades. Each industry has unique process requirements, raw material characteristics, and quality parameters. Our engineering, design, and supply solutions are carefully customized to meet these specific technical and operational needs.

1. KRAFT PAPER MILLS

OUR KRAFT PAPER MACHINES ARE ENGINEERED FOR HIGH-STRENGTH PACKAGING GRADES, INCLUDING FLUTING MEDIA, TEST LINER, AND KRAFT LINER. DESIGNED FOR RECYCLED FIBER AND WASTE PAPER-BASED PRODUCTION, THESE LINES ENSURE EXCELLENT BURST FACTOR (BF), TENSILE STRENGTH, AND UNIFORM GSM CONTROL.

TECHNICAL HIGHLIGHTS:

- GSM RANGE: 90–350 GSM
- DECKLE WIDTH: UP TO 5,500 MM
- MACHINE SPEED: 150–500 M/MIN
- PRODUCT GRADES: KRAFT, TEST LINER, FLUTING MEDIUM

2.TISSUE PAPER PRODUCERS

WE PROVIDE COMPLETE TISSUE PAPER PLANTS CAPABLE OF PRODUCING SOFT, ABSORBENT, AND HYGIENIC TISSUE WITH CONTROLLED BASIS WEIGHT AND TEXTURE. THE MACHINES ARE EQUIPPED WITH YANKEE DRYERS, HOOD SYSTEMS, AND SOFT-NIP PRESS TECHNOLOGY FOR HIGH-QUALITY OUTPUT.

TECHNICAL HIGHLIGHTS:

- GSM RANGE: 12–40 GSM
- SPEED: UP TO 1,200 M/MIN
- STEAM PRESSURE: UP TO 6 BAR
- PRODUCT RANGE: FACIAL, TOILET, NAPKIN, AND KITCHEN TISSUE

3.WRITING & PRINTING PAPER MANUFACTURERS

OUR WRITING AND PRINTING PAPER MACHINES DELIVER EXCELLENT FORMATION, OPACITY, AND PRINT SURFACE FINISH, USING MECHANICAL OR CHEMICAL PULP AND REFINED FIBER BLENDS. WE INTEGRATE SIZE PRESS AND CALENDER SECTIONS TO ACHIEVE UNIFORM COATING AND SMOOTHNESS.

TECHNICAL HIGHLIGHTS:

- GSM RANGE: 40–120 GSM
- MACHINE SPEED: UP TO 700 M/MIN
- FINISH: CALENDERED, SUPER-CALENDERED
- OPTIONAL ADD-ONS: SURFACE SIZING & COATING SYSTEMS

4.BOARD & PACKAGING PAPER UNITS

WE SUPPLY DUPLEX BOARD, FOLDING BOX BOARD, AND CORRUGATED BOARD MACHINERY DESIGNED FOR STIFFNESS, BULK, AND SURFACE PRINTABILITY. PLANTS ARE EQUIPPED WITH MULTI-LAYER FORMERS, COATING UNITS, AND AUTOMATED DRYING SECTIONS.

TECHNICAL HIGHLIGHTS:

- GSM RANGE: 180–600 GSM
- MULTI-PLY FORMATION SYSTEMS
- COATING APPLICATION: SINGLE OR DOUBLE SIDE
- END-USE: FOOD PACKAGING, CARTONS, AND CONTAINER BOARDS

5.SPECIALTY PAPER PRODUCERS

WE DEVELOP COMPLETE SOLUTIONS FOR HIGH-VALUE SPECIALTY GRADES SUCH AS DECOR, FILTER, COATED, AND BARRIER PAPERS, WHICH REQUIRE SPECIAL CHEMICAL TREATMENTS AND PRECISION COATING.

TECHNICAL HIGHLIGHTS:

- GSM RANGE: 30–250 GSM
- SPECIALTY PROCESSES: COATING, LAMINATING, EMBOSSING, AND BARRIER FINISHING
- APPLICATIONS: INDUSTRIAL FILTERS, LAMINATES, CURRENCY, FOOD-GRADE PACKAGING

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SUSTAINABILITY, EFFICIENCY & INNOVATION



At Amit Paper Consultants & Engineers, we believe that sustainable engineering is not just an option — it is the future of the paper industry. Every project we design integrates eco-efficient technologies and innovative process solutions that reduce environmental impact while maximizing mill performance.

We continuously adopt new technologies to help mills meet global sustainability standards and achieve long-term cost efficiency through intelligent resource management and smart operations.

Water Reuse & Zero-Liquid Discharge Systems (ZLD)

Advanced water recycling and closed-loop systems that eliminate effluent discharge, ensuring complete water recovery and reuse within the mill.

Energy Optimization & Green Power Systems

High-efficiency heat recovery, cogeneration, and biomass boiler systems to reduce power consumption and carbon footprint.

Cleaner Production & Emissions Control

Modern air and effluent treatment solutions, dust and fiber recovery systems, and chemical process control for cleaner, compliant operations.

Use of Recycled Fiber & Alternative Raw Materials

Maximizing raw material sustainability through waste paper utilization, non-wood fibers, and agro-residue-based pulp lines.

Smart Monitoring & Predictive Maintenance

Integration of automation, IoT sensors, and data analytics for real-time plant monitoring, fault prediction, and process optimization.

Modular & Scalable Plant Designs

Flexible layouts and modular systems for easy capacity expansion and cost-effective upgrades.

Compliance with Environmental Regulations

All designs and systems align with national and international environmental norms, ensuring mills meet ISO, CPCB, and CE standards.

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CLIENTELE / PROJECTS EXECUTED

Capacity (TPD)	Project Type / Quality	Country
30	Board Paper Plant	Sri Lanka
80	Writing & Kraft Paper Plant	Sri Lanka
5	Virgin Paper (Cotton-Based)	Sri Lanka
10	Tissue Paper Plant	Sri Lanka
200	Double Wire Kraft Paper Plant	Sri Lanka
200	Double Wire Kraft Paper Plant	Sri Lanka
50	Single Wire Kraft Paper Plant	Algeria
50	Tissue & Board Paper Plant	Ethiopia
50	Board Paper Plant	Ethiopia
30	Writing & Printing Paper Plant	Ethiopia
80	Double Wire Kraft Paper Plant	Saudi Arabia
150	Single Wire Kraft Paper Plant	Saudi Arabia
100	Double Wire Kraft Paper Plant	Angola
300	Triple Wire Kraft Paper Plant	India
120	Double Wire Kraft Paper Plant	India
150	Single Layer Kraft Paper Plant	India
200	Single Wire Kraft Paper Plant	India
300	Triple Wire Kraft Paper Plant	India
15	Virgin Paper (Cotton-Based)	India
100	Kraft Paper Plant	India
100	Double Wire Kraft Paper Plant	Ivory Coast
80	Board Paper Plant	Ghana
200	Double Wire Kraft Paper Plant	Bangladesh

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AT A GLANCE:

Parameter	Detail
Total Projects Executed & Active	23
Installed Capacity Range	5 – 300 TPD
Countries Served	India, Sri Lanka, Ethiopia, Saudi Arabia, Angola, Ghana, Ivory Coast, Bangladesh, Algeria, etc.
Project Types	Kraft, Board, Tissue, Writing & Printing, Virgin (Cotton-Based)
Execution Scope	Turnkey, Upgradation, Modernization & Technical Consultancy

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WHY CHOOSE US?

At Amit Paper Consultants & Engineers, we take pride in being a reliable and results-driven partner for the global paper industry. Our strengths lie in our experience, engineering capability, and commitment to sustainable growth.

1	**PROVEN DOMESTIC & INTERNATIONAL TRACK RECORD** Successful completion of turnkey paper mill projects and consultancy assignments across India, Africa, South Asia, and the Middle East, reflecting our technical competence and execution excellence.
2	**COMPREHENSIVE ONE-STOP SOLUTION PROVIDER** We offer complete project support — from feasibility and design to machinery supply, manpower deployment, and post-commissioning service — all under one roof.
3	**New & Refurbished Machinery Options** Ability to supply brand-new, upgraded, or fully refurbished machines, providing clients with flexible choices to match capacity, quality, and budget requirements.
4	**Eco-Friendly & Sustainable Technologies** Focus on energy-efficient processes, water recycling systems, and environmental compliance, ensuring mills operate responsibly and efficiently.
5	**Dedicated After-Sales & Service Support** Our experienced engineers and technicians offer installation, maintenance, operator training, and ongoing technical support for smooth mill performance.
6	**Competitive Pricing with Quality Assurance** We maintain international standards of quality while offering cost-effective project solutions, ensuring the best return on investment for our clients.



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