PARIKH INTERNATIONAL

SPONGE-JET®

Low Dust Abrasive Blasting Technology

OUTLINE

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INTRODUCTION

INTRODUCTION

- SPONGE-JET INC. IS THE WORLD'S LEADING MANUFACTURER OF **DRY, LOW DUST, RECYCLABLE ABRASIVE BLASTING MEDIA** AND RELATED HIGH-PRODUCTION EQUIPMENT HEADQUARTERED IN NEWINGTON, NEW HAMPSHIRE, USA.

- PARIKH INTERNATIONAL IS A BUSINESS IN INDIA WITH DIVERSIFIED INTERESTS IN AREAS SUCH AS **AGENCY REPRESENTATION, SALES, SERVICES, MANUFACTURING, IMPORT-EXPORT, CONSULTANCY & LIAISONING** WORK IN VARIOUS FIELDS.

- SPONGE JET HAS APPOINTED MR. SANJAY PARIKH, PARIKH INTERNATIONAL AS A REPRESENTATIVE FOR THE COUNTRY OF INDIA FOR ALL SPONGE-JET BRAND PRODUCTS ACROSS ALL INDUSTRIES.

WORKING METHODOLOGY

WORKING METHODOLOGY



SPONGE MEDIA FLATTENS ON IMPACT, EXPOSING ABRASIVE, CLEANING, ABRADING AND PROFILING THE SURFACE.

REF: HTTPS://WWW.SPONGEJET.COM/

WORKING METHODOLOGY



SPONGE CELLS EXPAND, CREATING VACUUM WHICH SUCKS IN DEBRIS.

REF: HTTPS://WWW.SPONGEJET.COM/

WORKING METHODOLOGY



MEDIA DROPS WITH HAZARDOUS PARTICLES WITH LOW ENERGY.

REF: HTTPS://WWW.SPONGEJET.COM/

BENEFITS

BENEFITS

- **VERSATILE -** WORKS ON ALL SUBSTRATES
- CREATES ANY REQUIRED OR **DESIRED PROFILE**
- ALLOWS BLASTING **NEAR SENSITIVE EQUIPMENT AND SURFACES**
- ALLOWS BLASTING **DURING PLANT OPERATIONS**
- **WORKING CONCURRENTLY WITH OTHER BLASTERS**
- **SAFER** FOR OPERATORS, LESS FATIGUE FOR LABORERS
- ENHANCED **VISIBILITY**
- **ENVIRONMENTALLY ENGINEERED**

REF: HTTPS://WWW.SPONGEJET.COM/

BENEFITS

- **REUSABLE** MATERIAL—90% LOWER DISPOSAL COST
- **IMPROVES RELIABILITY** OF ALL PLANT SYSTEMS
- HIGH NOZZLE **EFFICIENCY**
- NEEDS **LESS LABOUR** (NO STAND-BY MAN REQUIRED)
- **LOWERING TOTAL COST, EXTENDS COATING LIFE**

REF: HTTPS://WWW.SPONGEJET.COM/

SPONGE JET ECONOMICS - EXAMPLE

SPONGE-JET ECONOMICS - EXAMPLE

AREA : 100 M^2

CONCERN : COMPRESSOR, GENERATOR LOCATED AT MAIN AND MEZZANINE DECKS

MEDIA VS GARNET COSTING:

	Sponge Silver #30	Garnet 30/60
Weight Propelled / 1m²	36kg	45kg
Recycle	10 times	No
Total weight needed	360kg	4500kg
Price USD/kg	0.67	0.40 (average)
TOTAL (USD)	2,412.00	1,800.00

SPONGE-JET ECONOMICS - EXAMPLE

STAGING COSTING:

	Sponge-Jet	Conventional Blasting
Containment Area (Scaffolding, netting, barricading)	278.00	167.00
Dust Collection (vacuum)	417.00	No
Disposal Cost	50.00	No
TOTAL (USD)	**745.00**	**167.00**

SPONGE-JET ECONOMICS - EXAMPLE

MANPOWER & EQUIPMENT COSTING:

	Sponge-Jet (3pax & 12 days)	Conventional Blasting (4pax & 15 days)
Manpower	1,500.00	2,500.00
Equipment		
•Compressor	833.00	1,042.00
•Blasting Equipment	2,222.00	2,778.00
•After-cooler	555.00	778.00
•Recycler	500.00	
Total USD (equipment)	**4,110.00**	**4,598.00**

SPONGE-JET ECONOMICS - EXAMPLE

PPE & CONSUMABLES:

	Sponge-Jet	Conventional Blasting
Helmet, Gloves, Clothing	1,000.00	2,000.00
Lens Replacement	140.00	278.00
Other consumables	278.00	415.00
Total (USD)	**1,418.00**	**2,693.00**

SPONGE-JET ECONOMICS - EXAMPLE

TOTAL COST TO PAY TO CONTRACTOR:

	Sponge-Jet	Conventional Blasting
Material (media & garnet)	2,412.00	1,800.00
Staging	745.00	167.00
Manpower	1,500.00	2,500.00
Equipment	4110.00	4,598.00
PPE & Consumables	1,418.00	2,693.00
Total (USD)	**10,185.00**	**11,758.00**

SPONGE-JET ECONOMICS - EXAMPLE

HIDDEN COST BARE BY CONSUMER:

	Sponge-Jet	Conventional Blasting
Manpower Mob / Demob Cost		
Job Schedule	12 days	15 days
Man Power Mob/Demob (a)	1 time	1 times
Cost Manpower Mob / Demob	1,500.00	2,000.00
Material & Equipment Mob / Demob Cost		
Material & Equipment Mob/Demob	1 time	2 times
Cost Material & Equipment Mob/Demob	4,167.00	6,250.00
Total Hidden Cost	**5,667.00**	**8,250.00**

SPONGE-JET ECONOMICS - EXAMPLE

GRAND TOTAL COST:

	Sponge-Jet	Conventional Blasting
SUBTOTAL JOB COST CHARGE BY CONTRACTOR	10,185.00	11,758.00
HIDDEN COST	5,667.00	8,250.00
GRAND TOTAL COST (USD)	15,582.00	20,008.00

PRODUCTS

PRODUCTS – SPONGE MEDIA

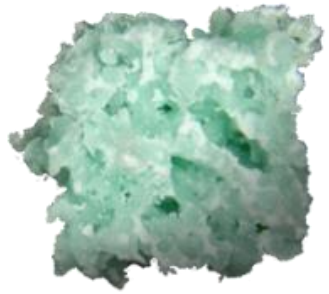
SPONGE-JET HAS ENGINEERED A LINE OF COMPOSITE ABRASIVES WHICH **ENCAPSULATES THE BEST ABRASIVES (MICRO-ABRASIVE PARTICLES) WITHIN HIGH-PERFORMANCE SYNTHETIC SPONGE.** THE SYNTHETIC SPONGE CAPTURES UP TO 95% OF THE CONTAMINANTS WHICH REDUCES FUGITIVE EMISSIONS THROUGH **MICROCONTAINMENT™.**



WHITE SPONGE MEDIA: SENSITIVE SUBSTRATE SOLUTION WITH MINIMAL TO NO PROFILING.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/SPONGE-MEDIA/

PRODUCTS – SPONGE MEDIA



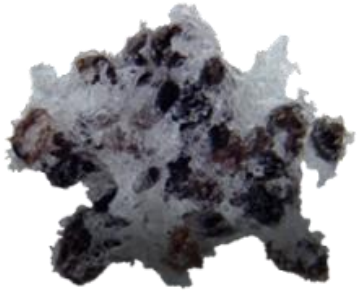
GREEN SPONGE MEDIA: OIL AND GREASE REMOVAL FROM HARD SUBSTANCES OR MACHINERY.



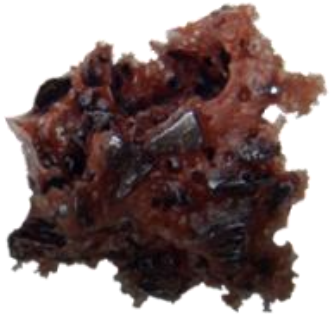
BLUE SPONGE MEDIA: JUST SPONGE, NO ADDED ABRASION, TO REMOVE SOOT AND SMOKE DAMAGE

REF: HTTPS://WWW.SPONGEJET.COM/STORE/SPONGE-MEDIA/

PRODUCTS – SPONGE MEDIA



SILVER SPONGE MEDIA: USES AL2O3, FOR ALL APPLICATIONS..



RED SPONGE MEDIA: USED ON RUSTED STEEL, WHERE REMOVAL BY IMPACT IS REQUIRED.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/SPONGE-MEDIA/

PRODUCTS – SPONGE MEDIA



GMA GARNET SPONGE MEDIA: MODERATELY AGGRESSIVE, RESIDUAL RECYCLABILITY.

FOR REFINEMENT OF SPONGE MEDIA SELECTION BASED ON VARIOUS CRITERIA, PLEASE VISIT FOLLOWING LINK:
HTTPS://WWW.SPONGEJET.COM/STORE/SPONGE-MEDIA/

REF: HTTPS://WWW.SPONGEJET.COM/STORE/SPONGE-MEDIA/

PRODUCTS – PORTABLE FEED UNITS

PORTABLE SPONGE-JET FEED UNIT™ IS DESIGNED TO OFFER MAXIMUM RANGE OF CAPABILITIES AND FEATURES TO ACCOMMODATE EVERY APPLICATION. FROM STANDARD, VALUE-BASED UNITS TO FEATURE RICH, HIGH-PERFORMANCE SYSTEMS TO UNITS DESIGNED SPECIFICALLY FOR USE IN EXTREME ENVIRONMENTS.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-FEED-UNITS/

PRODUCTS – PORTABLE FEED UNITS



170-CG FEED UNIT™: A VALUE-BASED CONFIGURATION WITH MINIMAL EXTRA FEATURES. THIS BASIC BUT RELIABLE FEED UNIT IS IDEAL WHERE MULTIPLE UNITS, WITH FEW FEATURES, ARE REQUIRED.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-FEED-UNITS/

PRODUCTS – PORTABLE FEED UNITS



170-EX FEED UNIT™: SIMILAR TO THE SPONGE-JET 170-SJ FEED UNIT BUT WITH A STAINLESS STEEL FRAME AND OTHER SPARK MINIMIZATION FEATURES; DESIGNED FOR USE IN POTENTIALLY FLAMMABLE ENVIRONMENTS. ATEX ZONE 2 CERTIFIED.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-FEED-UNITS/

PRODUCTS – PORTABLE FEED UNITS



170-SJ FEED UNIT™: THIS UNIT FEED UNIT IS FEATURE-RICH AND THE MOST POPULAR WITH AN EXCELLENT BALANCE BETWEEN SIZE, COST AND BLAST-TIME.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-FEED-UNITS/

PRODUCTS – PORTABLE FEED UNITS



470-CG FEED UNIT™: A VALUE-BASED CONFIGURATION WITH EXTENDED BLAST TIME AND MINIMAL EXTRA FEATURES. THIS BASIC BUT RELIABLE FEED UNIT IS IDEAL WHERE MULTIPLE UNITS, WITH FEW FEATURES, ARE REQUIRED.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-FEED-UNITS/

PRODUCTS – PORTABLE FEED UNITS



470-SJ FEED UNIT™: THIS FEED UNIT IS FEATURE-RICH AND LARGER THE THAN OUR MOST POPULAR FEED UNIT WITH UP TO TWO AND A HALF HOURS OF UNINTERRUPTED BLAST TIME BEFORE REFILLING.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-FEED-UNITS/

PRODUCTS – PORTABLE FEED UNITS



RASP XTREME™: THIS FEED UNIT IS LIGHT AND PORTABLE, ALLOWING FOR TRANSPORT IN MOST VEHICLES. IT CAN BE PASSED THROUGH A 60CM (24INCH) “MAN WAY”. DURING BLASTING, IT IS AS PRODUCTIVE AS OTHER FEED UNITS BUT REQUIRES REFILLING EVERY SEVEN 7 MINUTES.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-FEED-UNITS/

PRODUCTS – PORTABLE VACUUM SYSTEM

SPONGE-JET CVR (CONTINUOUS VAC-RECOVERY SYSTEM™) IS DESIGNED WITH RICH FEATURES. UNLIKE STANDARD VACUUM RECOVERY UNITS, THESE UNITS CAN PURGE AND DROP VACUUMED MATERIAL WHERE NEEDED WITHOUT EVER LOSING SUCTION AND THEREFORE ELIMINATING A PRIMARY CAUSE OF HOSE CLOGS.

REF: HTTPS://WWW.SPONGEJET.COM/PRODUCT/CVR-P110/

PRODUCTS – PORTABLE VACUUM SYSTEM



CVR-P110 REDUCES HANDLING AND LABOR COSTS. IT RECOVERS SPONGE MEDIA™ ABRASIVE IN THE WORK AREA AND AUTOMATICALLY TRANSPORTS IT TO THE SPONGE-JET RECYCLER™.

REF: HTTPS://WWW.SPONGEJET.COM/PRODUCT/CVR-P110/

PRODUCTS – PORTABLE RECYCLERS

PORTABLE SPONGE-JET RECYCLERS™ ARE USED TO SEPARATE DUST, BROKEN DOWN PAINT AND OTHER MATERIALS FROM REUSABLE SPONGE MEDIA™ ABRASIVES AS PART OF THE RECYCLING PROCESS. THEY ARE DESIGNED TO OFFER THE MAXIMUM RANGE OF CAPABILITIES, SIZE AND FLEXIBILITY OF POWER SOURCE. LARGER UNITS HAVE HIGHER THROUGHPUT CAPACITY AND REMOVE A GREATER PERCENTAGE OF FINE CONTAMINANTS THAN SMALLER UNITS.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-RECYCLERS/

PRODUCTS – PORTABLE RECYCLERS



25P RECYCLER™: LIMITED USE TO SMALL PROJECTS WITH RASP XTREME™ FEED UNIT. PNEUMATICALLY POWERED. THIS UNIT HAS LIMITED PRODUCTION CAPACITY BUT IS HIGHLY MOBILE FOR USE INSIDE TANKS. IT CAN BE PASSED THROUGH A 60CM (24INCH) "MAN WAY".

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-RECYCLERS/

PRODUCTS – PORTABLE RECYCLERS



35E RECYCLER™: PRODUCTION-ALIGNED WITH TYPICAL FLOW OF SPONGE MEDIA THROUGH A SINGLE FEED UNIT™. HIGHLY PORTABLE. ELECTRICALLY POWERED (VOLTAGE DROP FROM EXTENSIONS CORDS MUST BE AVOIDED).

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-RECYCLERS/

PRODUCTS – PORTABLE RECYCLERS



35P RECYCLER™: MOST POPULAR AND VERSATILE SPONGE-JET RECYCLER. PNEUMATICALLY POWERED. PRODUCTION-ALIGNED WITH TYPICAL FLOW OF SPONGE MEDIA THROUGH A SINGLE FEED UNIT. HIGHLY PORTABLE.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-RECYCLERS/

PRODUCTS – PORTABLE RECYCLERS



70E RECYCLER™: LARGER UNIT. ELECTRICALLY POWERED. SIZED TO SUPPORT EITHER TWO FEED UNITS OR WHERE EXTREME DUST-REMOVAL IS REQUIRED.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-RECYCLERS/

PRODUCTS – PORTABLE RECYCLERS



70P RECYCLER™: LARGER UNIT. PNEUMATICALLY POWERED. SIZED TO SUPPORT EITHER TWO FEED UNITS OR WHERE EXTREME DUST-REMOVAL IS REQUIRED (I.E. CONCRETE BLASTING, DUSTY COATING REMOVAL, ETC.).

REF: HTTPS://WWW.SPONGEJET.COM/STORE/PORTABLE-RECYCLERS/

PRODUCTS – AT A GLANCE



NEW SPONGE MEDIA



PORTABLE FEED UNITS

BLASTING



PORTABLE VACUUM SYSTEM



PORTABLE RECYCLERS



WASTE

REF: HTTPS://WWW.SPONGEJET.COM/PRODUCT/CVR-P110/

PRODUCTS – INTEGRATED SYSTEMS

IT INVOLVES OF:

- **SPONGE-JET FEED UNIT™** FOR THE DELIVERY OR BLASTING OF SPONGE MEDIA™ PRODUCTS.
- **VACUUM SYSTEM** FOR RECOVERY AND TRANSPORT OF SPONGE MEDIA.
- **SPONGE-JET RECYCLER™** TO CLEAN AND READY SPONGE MEDIA PRODUCTS FOR REUSE.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/INTEGRATED-SYSTEMS/

PRODUCTS – INTEGRATED SYSTEMS



B-VAC™ PRO 4 INTEGRATES ALL COMPONENTS IN A SINGLE FRAME FOR TRANSPORT BY FORK TRUCK, FLATBED OR CRANE. THE B-VAC IS IDEAL FOR APPLICATIONS WHERE SPACE IS A PREMIUM AND REDEPLOYMENT TIME IS COSTLY. THIS IS THE MOST POPULAR OF SPONGE-JET INTEGRATED SYSTEMS.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/INTEGRATED-SYSTEMS/

PRODUCTS – INTEGRATED SYSTEMS



KWIETKAVE™ INTEGRATES ALL COMPONENTS IN AN ECONOMICAL AND FLEXIBLE CONFIGURATION INSTALLED AT FIXED LOCATIONS. KWIETKAVES™ SYSTEMS ARE WELL SUITED FOR FACILITIES THAT CANNOT ACCOMMODATE COSTLY CONVENTIONAL ABRASIVE BLAST ROOMS. EACH UNIT IS CUSTOMIZED AND CONFIGURED TO THE END USER'S REQUIREMENTS.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/INTEGRATED-SYSTEMS/

PRODUCTS – INTEGRATED SYSTEMS



TRIGON B-VAC™ PRO SUPPORTS THREE HIGH-PRODUCTION NOZZLES WHILE INTEGRATING ALL COMPONENTS IN A SINGLE FRAME FOR TRANSPORT BY FORK TRUCK, FLATBED OR CRANE. THE TRIGON IS IDEAL FOR APPLICATIONS WHERE MULTIPLE NOZZLES ARE REQUIRED, SPACE IS A PREMIUM AND REDEPLOYMENT TIME IS COSTLY. VACUUM NOT INCLUDED IN BASE UNIT.

REF: HTTPS://WWW.SPONGEJET.COM/STORE/INTEGRATED-SYSTEMS/

PRODUCTS – SABER NOZZLES

SPONGE-JET IN COOPERATION WITH A LEADING UNIVERSITY'S JET PROPULSION LAB, DEVELOPED THIS REVOLUTIONARY NEW BLAST NOZZLE. SABER BLAST™ NOZZLES ACHIEVE HIGHER ACCELERATION OF ABRASIVE PARTICLES COMPARED TO ORDINARY BLAST NOZZLES – THUS INCREASING PRODUCTION SPEEDS, EFFICIENCY AND LOWERING OVERALL COST.



SABER NOZZLE

REF: HTTPS://WWW.SPONGEJET.COM/PRODUCT/SABER-BLAST-NOZZLE/

PRODUCTS – GORILLA NOZZLE LIGHT

SPONGE-JET GORILLA NOZZLE LIGHT – DESIGNED TO IMPROVE THE SAFETY, RELIABILITY AND PRODUCTIVITY OF SPONGE-JET BLASTING AND ORDINARY ABRASIVE BLASTING. THIS UNIQUE LED LIGHT FITS AROUND THE CIRCUMFERENCE OF ANY BLAST NOZZLE TO ILLUMINATE THE BLAST SURFACE WITHOUT SHADOWS AND BLIND SPOTS.



GORILLA LIGHT

REF: HTTPS://WWW.SPONGEJET.COM/PRODUCT/GORILLA-NOZZLE-LIGHT/

PRODUCTS – ROBOTICA

SPONGE-JET TECHNOLOGY FOR INTERNAL PIPE, TANK AND TUBE PREPARATION IS DESIGNED TO OFFER MAXIMUM RANGE OF CAPABILITIES AND ACCOMMODATE EVERY APPLICATION. FROM THE REVOLUTIONARY ROBOTICA™ FOR LARGE DIAMETER PIPES AND HORIZONTAL TANKS TO BASIC ROTARY BLASTING SYSTEMS FOR SMALLER PIPES AND TUBES.



ROBOTICA

REF: HTTPS://WWW.SPONGEJET.COM/STORE/INTERNAL-PIPE-TUBE-BLASTING-ROBOTICA/

APPLICATIONS

APPLICATIONS

- EQUIPMENT & MACHINERY
- GENERAL MAINTENANCE
- LEAD ABATEMENT
- HISTORIC RESTORATION
- CLEANING
- BRIDGE MAINTENANCE
- DECONTAMINATION
- BUILDINGS & STRUCTURES
- FIRE RESTORATION
- OIL AND GAS
- PETRO CHEMICAL
- MARINE AND OFFSHORE
- OPERATING EQUIPMENT
- STRUCTURAL STEEL
- MOLD REMEDIATION
- NUCLEAR REMEDIATION
- WATER TREATMENT
- PIPES & PIPELINES

REF: HTTPS://WWW.SPONGEJET.COM/

INDUSTRIES

INDUSTRIES

- OIL & GAS
- CHEMICAL & PETROCHEMICAL
- FACILITY MAINTENANCE
- BUILDINGS & INFRASTRUCTURE
- CONTRACTORS & COATING PROFESSIONALS
- MANUFACTURING
- MARINE
- AEROSPACE, MILITARY
- POWER
- RESTORATION
- RAILCAR
- PULP & PAPER
- ETHANOL
- TRANSPORTATION & AUTOMOTIVE

FOR EXAMPLES AND CASE STUDIES, PLEASE VISIT:
HTTPS://WWW.SPONGEJET.COM/RESOURCES-SUPPORT/RESOURCE-LIBRARY/

REF: HTTPS://WWW.SPONGEJET.COM/

CONCLUSION

CONCLUSION

THE TECHNOLOGY DEVELOPED BY SPONGE JET INC. IS HIGHLY **BENEFICIAL** AS WELL AS **RELIABLE**. IT HAS BEEN PROVEN ON FIELD BY VARIOUS **FORTUNE-100 MANUFACTURERS.** THIS TECHNOLOGY HAS ALSO BEEN DEPLOYED IN VARIOUS INDUSTRIES WITH VARIETY OF APPLICATIONS CREATING SUCCESS STORIES.

THANK YOU!