Welcome to

Parahsakthy

The Power of Water Conversion Technology





- Scarce resource
- Can not create or produce
- Out of 366 quintillion gallons of water occupying 71% of earth area, only 2.5% is usable
- Out of 2.5%, only 0.007% is potable and rest is hard water
- So, we are highly dependent on hard water for our industrial, agricultural and usage purposes.
- Using hard water has certain limitations and adverse effects like scaling, corrosion, blocking the equipment and machinery, etc.



Hard Water Affects...

Water described as "hard" is high in dissolved minerals, specifically calcium and magnesium.

Hard water may not be health risk, but a nuisance because of mineral build up on fixtures as scaling and poor soap performance.

Industrial Sector

- Breakdown of boilers / cooling towers etc., due to scaling and algae
- More power consumption and less water delivery

Domestic Sector

- Lack of lather when used with soap
- Cloths does not come out cleaner and brighter
- Lime scales in kettles, floor tiles and water heaters
- Dishes and glasses may be spotted when dry
- Reduced water flow in pipes due to scales

Agriculture Sector

- Salinization of soil surface & Low water infiltration
- Higher water requirement through frequent irrigation
- Decreased growth and yield
- Damage to soil health
- Uneven irrigation due to drip/nozzle clogging



Hard Water Affects....



- Hard water forms deposits, called "scale", which consists mainly calcium carbonate (CaCO₃), magnesium hydroxide [Mg(OH)₂] and calcium sulfate (CaSO₄).
- Calcium and magnesium carbonates tend to be deposited as off-white solids on the inside surfaces of pipes and heat exchangers.
- The resulting build-up of scale restricts the flow of water in pipes and in boilers, humidifiers, kettles, etc.
- Because of reduced heating efficiency, the metal boiler components tend to overheat and finally leading to failure of the boiler.



Existing Methods of Hard Water Softening....

Method	Technology	Adverse Affects
Chemical treatment	Adding sodium/calcium carbonate (washing soda) to water	Calcium carbonate and magnesium carbonate are insoluble
Ion Exchange	Replaces magnesium and calcium with sodium or potassium ions which are packed into cylinders	 Calcium/magnesium carbonate precipitates to form lime scale Clog up pipes in heating systems Frequent maintenance & replacement
Reverse osmosis (RO)	Hydrostatic pressure gradients across special membrane to filter hardness ions	 Frequent maintenance & replacement of equipment Scales are inevitable Wastage in water
Magnetic water treatment	Water pass through strong magnetic field by placing two strong neodymium magnets on either side of the incoming pipe	 Resultant residues Continuous monitoring and maintenance Recurring expenditure on chemicals, filters, membrane, etc.



Is there any solution to overcome the problems of existing hard water softeners?

Control Panel





Swachh paani
Instant Clean Innovative Water Converter (ICIWC)

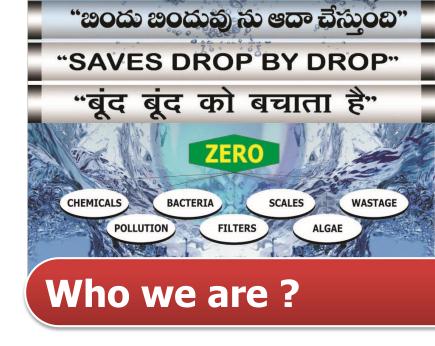
An unique non-chemical nano-catalytic, first-of-its-kind patent registered hard water to soft water converter



Parahsakthy
Power
Technologies
Pvt. Ltd.







We, M/s Parahsakthy Power Technologies (Pvt.) Ltd., (PPTL), Hyderabad is an NSIC & MSME Registered, ISO Certified manufacturer and supplier of **Swachh Paani** also called as ICIWC (Instant Clean Innovative Water Converter)

With the background of more than three decades in the instrumentation, PPTL is committed to serve the nation to save limited and valuable resources like, energy, fuel and water by way of introducing the **Swachh Paani** — an unique non-chemical nano-catalytic and first-of-its-kind patent registered hard water to soft water converter for all the areas where water is used..

Our core team of engineers, technicians and committed field force strive hard in generating application oriented technology to suit the needs of clients whose production is dependent on water to save their valuable equipment from scales and algae and minimize expenditure on power and fuel.



What is Swachh Paani?



- Unique non-chemical nano-catalytic first-of-its-kind patent registered product
- ➤ As water passes through

 Swachh Paani converter

 subjected to turbulent

 interaction in a catalytic

 chamber with a DC power

 supply with micro processor.



➤ Most of the physical properties of the hard water will get changed by particle division from ~600 to 5 microns and removes the chemical bonding which changes the calcite condition of hard water to aragonite condition, thereby, the very effectiveness of their presence in the hard water is totally removed.



Our Moto....

It is reported that due to removal of scales and increased outflow of water, the power consumption is reduced by about 20%

resulting save in

power and money.

We are committed to serve the industry/people who are spending lot of money on softening the water and the unending efforts like chemical treatments to over come the problem of scaling and algae in the pipeline.

Once the problem of scaling and algae is eradicated by fixing our **Swachh Paani** Converter, the industry and people not only save lot of money on chemicals for removing the scaling, but also on power, fuel and water.

This would not only help the industry or the individuals to gain, but also leads to indirect saving on valuable resources like, energy, fuel, water and environmental safety for the country.



What we do?





We manufacture and supply *Swachh Paani* – Hard water to Soft water converter.

Our clients benefit from our experience in a wide array of sectors as well as from our diverse functional capabilities. Our experience in such diverse industries as a supplier of hard water to soft water converter, provides us with the knowledge to solve our clients' toughest problems of hard water usage like scaling, algae and blocking of pipeline. We improve the quality of water with energy saving.

The diversified team of our dedicated engineers are committed to serve better when need arises even after installation of the equipment.

We can proud to extend our services to....

Cement Industry
Food Industry
Rice Millers
Steel Industry
Hospitals

Power Industry,
Pharma Industry
Agricultural Sector
Schools
Hotels & Restaurants, etc.



Areas of Application....

Swachh Paani

Converter is suitable at every place where water is used

Boilers

Rice Mills

Power Plants

Cooling Towers

Dairy Industries

Cement Industries

Agricultural Sector

Drip / Micro Irrigation

Pharma & Chemical Industries

Apartments & Independent Houses

Schools, Hospitals, Hotels / Restaurants







Our Strengths....

- Removes Existing Scales & Improves Water Output
- Easy Installation (No Modification in existing pipe)
- Life Time Efficient & Full Time Scale Free Equipment
- Separates Chemical Bonding & Improves pH Level
- Chemical or Filter Free Instant Conversion Process
- Lather and Soap Action as Equal to Soft Water
- Increases Life Time of all your Equipment
- No Further Scales build up for Life-Time
- Removes Bio-film and Avoid Algae
- Negligible power consumption
- No Loss of Useful Minerals in Water
- Saves Water, Energy and Money
- Maintenance Free (Fit & Forget)
- More Water for Less Energy
- Eco-Friendly (Green Product)



Our Strengths....

Potential of

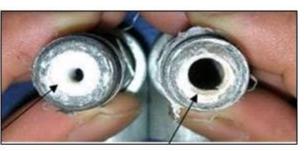
Swachh Paani

compared to existing water softeners

	Existing Softeners vs. Su	sisting Softeners vs. Swachh Paani Converter		
	Removes essential calcium and magnesium and macro minerals of water	No removal of any such useful minerals of water		
	Adds sodium to water which is highly harmful to human	No chemicals are added or used		
	Recurring expenditure on chemicals	No recurring expenditure (Fit & Forget)		
	Continuous monitoring and maintenance	No maintenance is required		
\rangle	Will not remove already deposited scales	Removes the existing scales		
	Only delays scale formation, but scales are inevitable	Never allow any scale formation for life time		
ĺ	Comparatively more power consumption	Very negligible power (or) No power		
ľ	Accumulate some residues	No residues		
	Wastage in water (~ 120 liters of 1000 liters delivered)	No wastage in water		
4	Very slow process of converting hard water as soft water	Instant conversion of hard water to soft water		
1	May not be green product	Eco-friendly product		



Advantages for Industry...



- Stops hard water scale and corrosion
- Remove existing scales and no further scales in pipeline
- Suitable to all industries wherever water is used
- ➤ Keeps cooling towers, piping and condensers clean & scale free
- > Improves life time and performance of any equipment





- ➢ More water out flow for lesser energy consumption
- Saving in three valuables (water, energy/fuel and money)
- No need for chemical, salt or acid for pipeline/valves to clean scales
- Algae free and clean water storage tanks and pipelines



- Virtually maintenance free for almost life time
- One time investment for life time profits
- Reduces energy costs
- 100% eco-friendly







A Case Study....

If we assume that a company's hard water pipeline is blocked by just $\frac{1}{4}$ inch due to scaling and running on chemical softeners to overcome scaling problem...

	Company's Net Loss:
It requires 40% more power/fuel	40% on power/fuel
Delivers 38% less water than optimum outflow	38% on water
Wastage of 120 liters of 1000 liters delivered	Expenditure on Chemicals
~ Rs.3.0 lakhs/year on maintenance staff salary	Loss in total delivered water
~ Rs. 2 to 3 lakhs/year on chemicals	Salaries to maintenance staff

If Swachh Paani Converter is used	Company's Net Gain:
Since no scales	Delivers full volume of water in less time
Since no wastage in water	All the water is available for production
Since motor running time is less	No extra expenditure on fuel/power
Since chemicals are not required	No recurring expenditure on chemicals
Since it is maintenance free	No expenditure on manpower for maintenance
Since conversion process is instant	Saves time, energy/fuel



Our Installations....



















Advantages for Agriculture...



- Increases yield by 25 to 40%
- Less Fertilizer, water & Nutrients required
- Fast & deep penetration (directly to root zone) and decreases irrigated water requirement (15 to 40%)
- Removes existing scales & never allow any scaling in drip/micro irrigation pipeline or nozzles for life time
- Saving of three valuables (water, energy /fuel and money)
- Greener, healthier and robust crop growth with fast and smooth water flow
- Reduce leaf burn and improves the yield
- Algae free and clean water storage tanks and pipelines
- Easy to install without any alteration to existing pipeline
- No maintenance (fit & forget)
- No need for any chemical, salt or acids for scaling problem
- One time investment for life time profits
- Breaks up soil clods and retain soil moisture for longer periods
- Results revealed that water flow would be 84% faster with this converter
- Due to improved permeability, unwanted salts that are previously accumulated around the root zone & soil are flushed and do not reform



Some of Our Installations...

Industrial Installations



Agricultural Installations





Household Installations





Advantages for Household...

- > It is a Hard water to Soft water converter but not softener/filter
- Maintains clean bathtub, shower and walls
- Whiter and softer cloth washings with less detergent and more lather
- > Dishwashers and washing machines remain clean and scale free
- Stops scaling in piping, removes existing scale, improves water pressure
- More water discharge for less energy consumption
- Protects water heaters from corrosion and adds life to equipment
- > Never allow any salt encrustation on air conditioners
- > ICIWC simply becomes part of your pipeline and can be fitted very easily without any modifications/alterations to the existing system.
- > Since, ICIWC is designed with high quality stainless steel, it will not attract any rust, requires no maintenance and lasts for lifetime.















Water Test Reports..

SRI BABA (PCR) AQUA LAB

Near Red Bridge - AMALAPURAM A. Vamsi, M.Sc., (Aqua) Cell: 92466 57888

		D. C	After Converter	Date Date Remarks
No.	Parameters	Before-Converter	Arter Converter	
1.	Particl Division in Microns	Big	Seperate	
2.	Hardness (Bonding Structure)	Closed	Seperate	
3.	Рн	7.8	7.6	
4.	Turbidity	Nil	Nil	Usegalfor
5.	Taste	Light Hard	Tasty	Drinking
6.	Colour	Transperent	Trensperent	
7.	Smell	No smell	No smell	
8.	Bacterial Test	Nil	Nill	THE RE
9.	Condustivity Salinity	1 PPt.	1 PPt	,
10.	Ammonia (NH ₄)	Nil	Nill	
11.	Alkalinity	336	328	
12.	Iron	0.03	Nili	
13.	Hardness	300	300	
14.	T.D.S.	35	32	

SRI BABA PCR AQUA LAB Near Red Bridge, Main Road AMALAPURAM-533 20*

SRI BABA (PCR) AQUA LAB

Near Red Bridge - AMALAPURAM A. Vamsi, M.Sc., (Aqua) Cell : 92466 57888

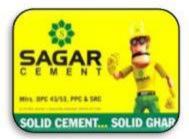
S.No.	Parameters	Before-Converter	After Converter	Remarks
1.	Particl Division in Microns	Big	Small	
2.	Hardness (Bonding Structure)	Closed	Seperate	
3.	рн	7.4	7.3	
4.	Turbidity	Nill	Nill	
5.	Taste	Light Hard	Tasty	Usedulfor
6.	Colour	Transperent	Transperent	Drinking
7.	Smell	No smell	No smell	
8.	Bacterial Test	Nill	Nill	
9.	Conductivity Salinity	1 PPt	1 PPt	
10.	Ammonia (NH ₄)	Nill	Nill	
11.	Alkalinity	328	300	
12.	Iron	Nill	Nil)	
13.	Hardness	630	600	
14.	T.D.S.	68	67	

SRI BABA PCR AQUA LAB Near Red Bridge, Main Roarl AMALAPURAM-533 20*





Clientele...



















Heritage Foods
Sagar Cements
Ramco Cements
Maha Cements
Parashakthi Cements
Praneeth Pranav Group
SLV Constructions
PNR Apartments
Balaji Apartments
Alekya Drugs
KV Foods
Jai Foods Chocolate Co.
Chandak Chemicals

Lee Pharma
NRI Hospitals
Aster Industries
Siva Sai Industries
Prompt Industries
Kanaka Durga Industries
Cauvery Iron & Steels
Varalaxmi Constructions
Kondapally Forgings
Pegaus Engg. & Comm. Corpn.
Madhura Dairy Pvt. Ltd.
Rajadhani Hotels
Surya Polyflex

SVS Polymer
GP Traders
Cabson Gas
NTR School
Adithya School
Brilliant Grammar School
Jagadamba Rice Mill
Sai Padmavathi Rice Mill
Sri Manikanta Rice Mill
Sri Anjaneya Rice Industries
Venkateswara Parboiler Rice Mill
Vijaya Laxmi Anjaneya Ice Factory
Sri Seeta Ramanjaneya Rice Mill &

Many other installations....











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THE RAMCO CEMENTS LIMITED

(formerly known as Madras Cements Ltd.)

November 19, 2014

TO WHOM SO EVER IT MAY CONCERN

THIS IS TO CERTIFY THAT WE ARE IN USE OF "NANO CATALYTIC INSTANT WATER CONVERTER" AT OUR JAYANTHIPURAM & KOLAGHAT FACTORIES WHICH IS MANUFRACTURED. SUPPLIED AND INSTALLED BY M/S. PARAHSAKTHY POWER TECHNOLOGIES PRIVATE LIMITED. HYDERABAD.

THIS IS IN LINE AND CUSTOMISED EQUIPMENT, WHICH WILL FIXED AT SQUIRCE LOCATION OF BORE OUT LET OR SUMP OUT LET AND BEING COMMISSIONED TO OUR RAMCO PLAINTS IN VARIOUS PLACES IN THE APPLICATIONS AREAS LIKE PLANT UTILITY, C.T., COMPRESSORS, COOLING TOWERS, POWER PLANT ETC. FOR THE PURPOSE OF PREVENTION OF SCALES AND ALEGAEY IN WATER PIPE LINES, NOZZLES, FILTERS, R.O MEMBRANE, PUMP IMPELLERS, AIR COMPRESSOR SYSTEMS, CEMENT MILL SPRAY NOZZLES WHICH IS FORMED DURING THE FLOW OF HARD WATER

AFTER THE INSTALLATION OF "NAMO CATALYTIC INSTANT WATER CONVERTOR" WE HAD FOUND RESULTS MORE OF SAVING THE WATER RESOURCES AND REDUCED THE COST OF MAINTANENCE TO OUR EQUIPEMENTS, ALSO "NOWC" HAS CHANGED THE TASTE OF HARD WATER PROBLEMS AT OUTPUT AND MADE TO USEFUL WATER AND INCREASED THE LIFE OF INDUSTRIES GADGETS LIKE FILTERS, HEAT EXCHANGERS ETC.

WE FOUND THE PERFORMANCE RESULT OF THE "NAND CATALYTIC INSTANT WATER CONVERTOR" IS SATISFIED TO THE VARIOUS APPLICATIONS. ALSO, HAPPY TO RECOMMEND THE SAME FOR MFG INDUSTRIES TO UTILISE THE "NCIWC" AND GET SAVE MORE OF ENERGY & RESOURCES.

WE WISH M/S. PARAHSAKTHY POWER TECHNOLOGIES PRIVATE LIMITED, HYDERABAD TO GET ALL SUCCESSES AND TO REDUCE HASSELS IN MAINTENANCE OF EQUIPMENTS. IN WATER CIRCUITS.

FOR THE RAMCO CEMENTS LIMITED.

PRESIDENT-MFG

Testimonials ...



CAUVERY IRON & STEEL (INDIA) LTD.

CORP. OFF: D-BLOCK, 5th FLOOR, SURYA TOWERS, S.P. ROAD, SECUNDERABAD - 500 003. A.P., INDIA. MAR. DIVI : D-BLOCK, 2nd FLOOR, SURYA TOWERS, S.P. ROAD, SECUNDERABAD - 500 003. A.P., INDIA.

14.6.2014

TO WHOM SO EVER IT MAY CONCERN

THIS IS TO CERTIFY THAT WE HAVE INSTALLED THE NANO CATALYTIC INSTANT WATER CONVERTER MANUFACTURED BY MI/S PARAHSAKTHY TECHNOLOGIES, HYDERABAD AT OUR MAIN SOURCE BORE OUT LET AND BEING SUPPLIED TO ENTIRE PLANT LIKE RO PLANT, BOILERS, COOLING TOWERS FOR PREVENTION OF SCALES.ALGAE AND OTHER PROBLEMS RELATED TO HARD WATER.

AFTER USING THE CONVERTER WE FOUND THE FOLLOWING RESULTS:

The recorded results are mentioned here under

- 1. The consumption of HCL is reduced up to 20%.
- 2. Earlier water conductivity was 600 and consumption of H2SO4 about 4kg/day, same as that of H2SO4 consumed now at 2000 conductivity.
- 3. Algae growing reduced by 80%.
- 4. De scaling observed in old pipe lines.
- 5. Gel formation reduced in R.O. membrane.
- 6. R.O. differential pressure maintained good.
- THE PERFORMANCE OF THE CONVERTER (NCIWC) IS QUITE SATIS FACTORY.

WE WISH M/s. PARAHSAKTHY POWER TECH PVT LTD HYDERABAD ALL SUCCESS.

Authorized Signature.

cos For Cuavery Iron and Steel (INDIA) Ltd.

Name of Authorized Signatory:

Mobile No: 9705838889

Tele Ph. : 040 -2784 0370, 71, 72, 73 Fax: 040-2784 0375 E-mail: ashokguptaa14@yahoo.com

Integrated Steel Plant

Sy No. 650A to 656A, Khajapur Village, Shankarampet (R) Mandal, Medak Dist, Andhra Pradesh - 502 248

Ph: 08452 - 247012, 200018, Fax: 247022







www.cauverysteel.com





NRI Academy of Sciences

Chinakakani - Mangalagiri Mandal, Guntur District. Andhra Pradesh (India) 522 503.

Phone: 08645 - 236777, 237401, 402, 403, 405, Fax: 237404

Date:01.02.2016

TO WHOM SO EVER IT MAY CONCERN

This is to certify that we have installed the NANO CATALYTIC INSTAT WATER CONVERTER manufactured by M/S Parashakthy Technologies, Hyderabad at our main sump, which supplies water to the whole hospital including R.O Plant for prevention of Scales, Algae and other problems related to hard water.

After using the converter we found the following results:

- 1. Algae growing reduced by 75%
- 2. De scaling observed in old pipe lines
- 3. Gel formation reduced in membrane of R.O Plant
- 4. Differential pressure maintained good

The performance of the converter (NCIWC) is quite satisfactory.

We wish M/s: Parahsakthy Power Tech Pvt. Ltd. In all success.

For NRI Academy of Sciences

Authorized Signatory

Testimonials...

SV NILAYAM APARTMENT, BODUPPAL

PHONE NO: 9848748740

10TH JANURAY 2015

TO WHOM SO EVER IT MAY CONCERN

THIS IS TO CERTIFY THAT WE ARE IN USE OF "INSTANT CLEAN INNOVATIVE WATER CONVERTER" AT OUR SRIVENKATESHWARA NILAYAM, MALLIKARJUNA NAGAR, BODUPPAL APARTMENTS WHICH IS MANUFRACTURED, SUPPLED AND INSTALLED BY M/S. PARAHSAKTHY POWER TECHNOLOGIES PRIVATE LIMITED, HYDERABAD.

THIS IS IN LINE AND CUSTOMIZED EQUIPMENT, WHICH WILL FIXED AT SOURCE LOCATION OF BORE OUT LET OR SUMP OUTLET AND BEING COMMISSIONED TO OUR APPARTNMENTS IN VARIOUS FLATS OWNERS IN DIFFERENT PLACES LIKE KICTEN, BATHROOMS, FLOOR CLEANING, OVER HEAD TANK ETC FOR THE PURPOSE OF PREVENTION OF SCALES AND BACTERIA, ALGAE IN WATER PIPE LINES NOZZLES IN TAPES, WASHING MACHINE, FILTERS, SUMPS ETC WHICH IS FORMED DURING THE FLOW OF HARD WATER.

AFTER THE INSTALLATION OF "INSTANT CLEAN INNOVATIVE WATER CONVERTER" WE HAD FOUND RESULTS MORE OF SAVING THE WATER RESOURCES AND REDUCED THE COST OF MAINTANENCE TO OUR EQUIPEMENTS, ALSO "ICIWC" HAS CHANGED THE TASTE OF NHARD WATER PROBLEMS AT OUTPUT AND MADE TO USEFUL WATER AND INCREASED THE LIFE OF WASHING MACHINE, CADDLES IN FILTERS, TAPES ETC.

WE SEEN THE PERFORMANCE RESULTS OF THE "ICIWC" IS WORKED PERFECTLY IN VARIOUS LOCATIONS IN DOMESTIC SECTOR.ALSO, HAPPY TO GIVE MANY MORE EXPERIENCE WITH "ICIWC" IN DIFFERENT VILLAS AND APARTMENTS FOR THIS SUCCESES AND TO REDUCE HASSELS IN MAINTENANCE OF EQUIPMENTS IN WATER USAGE.

ADERALA RAJUREDDY

(APARTMENT PRESIDENT)

SRI VENKATESHWARA NILAYAM, PLOT NO: 6, H: NO: 3-149/6, MALLIKARJUNA NAGAR BODUPPA R.R DIST, HYDERABAD. PH NO: 9848748740. MAIL ID: Rajureddyaderla@Yahoo.Com



Thanks for your Time...





PARAHSAKTHY

POWER TECHNOLOGIES PVT. LTD

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Plot No. B-004, K.K. Towers, Tenali By-Pass Road, Mangalagiri, Guntur Dist. (AP)