



M/S WRIGHT & COMPANY

AN ISO CERTIFIED COMPANY

Quality Management System of
ISO 9001:2015

Occupational Health & Safety Management System of
ISO 45001:2018

M/S WRIGHT & COMPANY

23, N. S. ROAD, 4 COMMERCIAL BUILDING, 2ND FLOOR, KOLKATA – 700001

MAIL ID – info@wrightnco.com, WEB – www.wrightnco.com

COMPANY PROFILE

GENERAL INFORMATIONS

Name of the firm	M/s Wright & Company
City Office	23, N. S. Road, 4, Commercial Building (2nd Floor), Kolkata - 700 001, West Bengal
Correspondence Office	Ramchandrapur, Durgapur, Near Milan Sangha Club, Bally, Howrah - 711205, West Bengal
Telephones	+91 9830108281 / 9433217395
E-Mail Id	info@wrightnco.com
Website	www.wrightnco.com
Status of Firm	Partnership
GST REG. NO.	19AAAFW2419F2Z9

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INTRODUCTION

WE INTRODUCE OURSELVES AS A CONSORTIUM HAVING WIDE EXPERIENCE IN THE SPECIALIZED FIELD OF CHEMICAL CLEANING AND HYDRO-JET CLEANING OF BOILER, CONDENSER, HEAT EXCHANGER, VESSEL, PIPELINE, OTHER VARIOUS SYSTEMS, BULLET CLEANING & BORESCOPIC INSPECTION OF CONDENSER TUBES IN VARIOUS POWER, FERTILIZER, REFINERY AND PETRO-CHEMICAL PLANTS & PROJECTS.THROUGHOUT THE COUNTRY.

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VARIOUS CLEANING PROCESSES **PROVIDED BY US**

- ***CHEMICAL CLEANING***
- ***HIGH PRESSURE HYDRO JET CLEANING***
- ***BULLET SHOT CLEANING***
- ***BORESCOPE INSPECTION OF TUBES***
- ***EDDY CURRENT TESTING***
- ***TUBE REPLACEMENT OF CONDENSER***

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KEY FEATURES

We offer a broad range of chemical cleaning services. Each job is tailored to the application. Typically, a chemical cleaning job involves the following operations:

- Removal of rust preventive compounds, greases, dirt, sand, cutting, oils, etc.
- Removal of mill scale, rust and other corrosion products.
- Neutralization and passivation of the freshly cleaned metal surfaces.
- **For higher silica & acid insolubles containing scales in condenser tubes, we have developed a tailor made special formulation with multiacid. The special method has been very successfully used upto 600 MW condenser cleaning job. Now, we are going to apply for patent for this method.**
- **For any type of big vessel and equipment like Sphere, Deaerator, etc., we use spray cleaning technology with solid cone spray 3D nozzles. This gives much better cleaning efficiency without fully filling the system.**

BENEFITS OF HYDRO JETTING OR BULLET SHOT CLEANING AFTER CHEMICAL CLEANING OF CONDENSER / HEAT EXCHANGERS:

- Unless and until the residual scales are removed from inside tubes, efficiency of the condenser will get impaired to get full benefit of chemical cleaning. A combination of chemical cleaning followed by hydro jetting will give you the best result.

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LIST OF CUSTOMERS

1. THERMAX ENGINEERING LTD.
2. NTPC LTD.
3. DAMODAR VALLEY CORPORATION
4. WBPDC(WEST BENGAL POWER DEVELOPMENT CORPORATION LTD)
5. IOCL
6. CSPGCL (CHATTISGARH STATE POWER GENERATION CORPORATION LTD)
7. HALDIA PETROCHEMICALS LTD.
8. TATA STEEL LTD.
9. TATA POWER
10. ADITYA BIRLA GROUP.
11. RELIANCE ADAG (SASAN UMPP).
12. HINDUSTAN ZINC LTD.
13. VEDANTA LTD.
14. GMR-KAMALANGA
15. SKS POWER – RAIGARH
16. MITSUBISHI CHEMICALS
17. JINDAL STEEL & POWER LTD.
18. JSW STEEL LTD. (FORMERLY BHUSHAN POWER & STEEL LTD.)
19. JINDAL COKE LIMITED
20. BHUSHAN ENEREGY LTD.
21. ISGEC HEAVY ENGINEERING LTD
22. BHEL
23. MAHARASTRA STATE ELECTRICITY BOARD.
24. ESSAR OIL LTD.
25. IB THERMAL POWER STATION (OPGCL)
26. NAGARJUNA FERTILIZERS & CHEMICALS LTD.
27. ALSTOM
28. AND OTHER SUGAR MILLS, PAPER MILLS, STEEL PLANTS, ETC.

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OUR SCOPE OF WORK

FOR CHEMICAL CLEANING JOB

- Preparation of flow diagram for chemical cleaning circuit.
- Preparation of list of materials like temporary piping, pump – motor sets, mixing tank, valves, consumables etc. as required.
- Provision of Chemicals as required for execution of the job.
- An express type mini lab setup.
- Provision of Engineers, Supervisors, skilled and unskilled manpower for execution of the job.
- Setting up of temporary circuit and subsequent dismantling after cleaning.
- Blanking jobs for chemical cleaning work and its removal after cleaning.
- Chemical Cleaning.
- Restoration of the system after cleaning and site cleaning.

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OUR SCOPE OF WORK

FOR HYDRO JET CLEANING JOB:

- Provision of hydro jet machine with all accessories, tools & tackle etc.
- Provision of Supervisors, skilled and unskilled manpower for execution of the job.
- Safety accessories for the workers.

FOR BULLET SHOT CLEANING JOB:

- Cleaning of condenser tubes by shooting of bullets of proper size inside the tubes with our Conco-USA make machines.
- Provision of bullets like phosphor-bronze bullet, plastic bullets, etc.
- Cleaning the area for debris / unwanted material.
- Arrangement for tarp at a suitable position in outlet water box.
- Provision of Supervisors, skilled and unskilled manpower for execution of the job.

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EXPERIENCE

CHEMICAL CLEANING OF CONDENSER:

- We have the experience of chemical cleaning of condenser tubes in **conventional cleaning** as well as a **special method developed by us** in various power projects upto **660 MW**.
- **Recently**, Chemical Cleaning and Borescope of U#4 condenser of **4×600MW** condenser have successfully been executed at **Vedanta, IPP, Jharsuguda under M/s Steag Energy Services (India) Pvt. Ltd.** A few months ago, identical job have successfully executed of **U#1, 600MW** condenser LP & HP separately at the **same premises** under M/s Steag.
- We have successfully done chemical cleaning followed by hydro jetting of U#2, 3 & 1 of **4×600MW** condenser at **Vedanta IPP, Jharsuguda under M/s Powermech Projects Ltd.**
- U#5, U#3 & U#4 of **120 MW** condenser at **Tata Power - Jojobera** with the special method. Also with our tailor made special method has been successfully used in various projects like **Vedanta Lanjigarh – 1×30 MW under M/s Steag and 2×30MW directly under M/s Vedanta**, **1×30MW** Tata Steel (Erstwhile Usha Martin–Jamshedpur) and to name a few.

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- During full lockdown condition in May-June'2020, we have successfully executed chemical cleaning followed by HP jetting of a heavily fouled condenser of 110 MW capacity at **NTPC-Barauni Thermal Power**.
- In conventional method, we have successfully executed jobs for chemical cleaning followed by hydro jet cleaning of **Unit#4 & 5 of 2×660 MW condenser cleaning at NTPC-Barh STPP**. And successfully cleaned chemical cleaning followed by bullet shot method of **U#2 & U#5, 660MW condenser** having about 36,000 No. tubes at **Reliance-Sasan UMPP**.
- Previously, successfully executed 67.5 MW, Unit#1 and 120 MW, Unit#3, 4 & 5 condensers by inhibited Sulphamic acid method at Tata Power Ltd., Jojobera and various condensers at PH#3 & 4 of CPP - TISCO. We have also cleaned 10 x 210 MW Condensers of Unit # 1, 2, 3, 4 and 2 x 250 MW at Mejia TPS, 3 x 210 MW Condensers of Unit # 4 at Durgapur TPS, 7 x 140 MW Unit # 1, 2 & 3 condensers at Chandrapura TPS of M/s DVC with inhibited Sulphamic acid, followed by high pressure water jetting operation. 1 x 210 MW Unit # 1 Condenser at IB TPS of OPGCL, Jharsuguda - Odisha by means of Sulphamic acid. 1 x 250MW and 4x120 MW condensers at Santaldih TPS and 300 MW Unit # 1 & 2 Condenser at Sagardighi Thermal Power Project of M/S. WBPDCCL have been cleaned by Sulphamic acid method. Besides 500 MW Condenser U #3 at NTPC Simhadri Super Thermal Power Project with inhibited Sulphamic acid, followed by high pressure water jetting & bullet cleaning operation, 500 MW Condenser U#6 at NTPC Farakka Super Thermal Power Station.

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CHEMICAL CLEANING OF BOILER:

- **We have the experience of chemical cleaning for Boilers up to 350 MW capacities both pre and post operational jobs.**
- In the recent past, we have done Post operational chemical cleaning of boiler and auxiliary of U#5, 210 MW, **WBPDC, Kolaghat TPS** and Multistage acid cleaning of boiler water circuit at U#3, 210 MW, **Mejia TPS, DVC, West Bengal.**
- Pre-Commissioning chemical cleaning of super critical boiler 350 MW unit#3 at Meenakshi Energy Ltd. Tamminapatnam under M/s Cethar Ltd. Chemical cleaning of 1×210 TPH, CFBC Boiler at **Bhushan Power & Steel Ltd.** under M/s ISGEC; pre-operational chemical cleaning including alkali flushing of WHRB and Chemical Cleaning of Deaerator feed storage tank & associated lines for 225 MW Phase-II Combined Cycle Gas based Power Plant at **Sravanthi Energy Ltd., Kashipur, Uttarakhand.** Chemical cleaning of WHRS Boilers HP & LP Main Steam Line at **Ultratech Cement Limited, Kovaya, Gujarat.** Chemical cleaning upto 1st stage Passivation of Boiler Unit#2 & 3, 75 TPH, BHEL make at EC-1 M/s **Grasim Industries Limited, Nagda.**
- **Previously, Unit #1 & 2 77 MW boiler was done at Hindustan Zinc Ltd., Chanderiya CPP (Thermal), U#1 80 MW boiler at HZL-Dariba, Chittorgarh,**

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- In the past, we have successfully executed chemical cleaning of 240TPH PF fired boiler and main steam pipe line at Shriram Alkali & Chemicals, Jhagadia in the year 2008; also we have successfully executed chemical cleaning of 1×200 MW, 1×210 MW, 4×120 MW boilers at Koradi TPS, 2×210 MW boilers at Nasik TPS, 1×210 MW boiler at Khaperkheda TPS of MSEB, 2×210 MW Boilers at Korba West Bank of M/s CSEB, 1×200 MW Ansaldo Boiler of U#3 at Ramagundam STPS of M/S NTPC under M/s BHEL, 2×120 MW boilers at Santaldih TPS & 3×80 MW boilers at Bandel TPS of WBPDC, chemical cleaning of 150 TPH Unit#4 CFBC Thyssen Krupp boiler (FBB – 9) at **HINDALCO (Unit-Birla Copper Ltd.) Dahej, Gujarat**, Chemical cleaning of 150 TPH CFBC boiler at GHCL, Veraval, Gujarat, CFBC Boiler at J. K. Paper Ltd, 3×175 TPH Boilers at Essar Oil Ltd.-Gujarat under M/s Thermax, chemical cleaning of 3×350MW boiler including feed water system of SEPCO China at GMR Energy, Angul, Odisha, Chemical cleaning of 495TPH CFBC Boilers at 2×150MW U#1 & 2 at Meenakshi Energy Pvt. Ltd Project, Thamminapatnam and 2×240TPH CFBC Boilers at 2×60MW Power Project at Indian Metal and Ferro Alloys, Choudwar, Cuttack, Odisha under M/s Thermax Ltd., Acid cleaning of 3×67.5 MW Boiler & Main Steam Lines at Tata Power, Kalinganagar, Odisha under M/s Thermax Ltd. 6×135MW, China make boilers at JSPL, 4×210TPH, 2×425 TPH CFBC Boilers at Bhushan Power & Steel Ltd., Odisha, 4×250TPH CFBC Boilers at Bhushan Energy Ltd., Meeramandali, Odisha & Chemical cleaning of Boiler and other systems of 1×135MW (Unit-2) manufactured by M/s Cethar Vessels Limited (CVL) from M/s Vandana Vidhyut Ltd., Korba, Chhattisgarh.
- Also we have recently executed acid cleaning of 1×150 TPH CFBC Boiler work at M/S. **UPL Limited, Jhagadia, Gujarat** under M/s ISGEC. We have successfully executed chemical cleaning by EDTA method of 110MW boiler Unit#2 at NTPC–Kanti Bijlee Utpadan Nigam Ltd. Muzaffarpur & U#9 at Bokaro Power Supply Corporation Ltd. under M/s Alstom India Ltd. We have also executed chemical cleaning of 2 × 110 MW BHEL boilers at Barauni TPS of Bihar from M/s Power Mech under BHEL.

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BULLET SHOT CLEANING :

- **We have the experience of bullet shot cleaning of condensers up to 800 MW capacities.**
- In the recent past, cleaning of **800 MW TOSHIBA (JSW) make** condenser having about 50,584 No. Tubes. of Unit # 2 by bullet shot method **with four (4) machines** simultaneously at **Ntpc – Kudgi STPP, Karnataka.**
- And also cleaned regularly (AMC) in NTPC's various projects namely Farakka, Simhadri, etc. projects (500 MW condenser) and also other various projects throughout the country.

HYDRO JET CLEANING:

- **We have wide experience of hydro jet cleaning of condensers, Boilers, heat exchanger, vessels, pipeline, other various systems.**
- Presently we are executing an AMC for Stage-I,II and III Condensers tube cleaning by High Pressure Water Jetting at NTPC FARAKKA STPP, WB. for the year 2022-23 & 2023-24.
- We have successfully executed cleaning of condenser tubes of U#1, 500MW by High pressure hydro jetting method at DVC-DSTPS-Andal in Sep'2019; 660MW Condenser Unit # 4 & 5 by chemically followed by High Pressure Water Jet Cleaning at M/s NTPC - Barh STPP and also other various project throughout the country.
- In the recent past, we have successfully executed hydrojet cleaning of around 500Mtrs×2.5-3.2 mtr. dia pipelines in a Hydro Power Plant at Dima Hasao-Assam.

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CHEMICAL CLEANING OF PIPE LINES & OTHER SYSTEMS:

- **We have wide experience of cleaning of deaerators, spheres, pipelines & other systems throughout the country.**
- In the recent past, we have successfully executed deaerator clearing by spray cleaning technique at Sravanthi Energy Pvt. Ltd., Uttarakhand.
- In the recent past, we have successfully executed Chemicals Cleaning & Passivation of Butadiene Sphere and associated piping by Spray Technique with 3D nozzle at HPL Complex, Haldia 43-V-001D in September - 2019 and 43-V-001A in June – 2019. In June - 2018, we have executed chemical cleaning & passivation of butadiene jetty line around 14 km. at Haldia plant also **other various projects** throughout the country.

EDDY CURRENT TESTING AND TUBE REPLACEMENT OF CONDENSER:

- **We have the experience of tube testing with Eddy Current method to check tube health, thickness testing, finding weak tube and replacement of tubes in many projects throughout the country.**
- We have successfully done this kind of jobs at NSPCL, Bhilai 2×250MW; 2×210 MW capacities at M/s IB Thermal Power Station, OPGCL; Mankapur Chini Mills, Gonda and Dalmia Chini Mills Unit-Jawaharpur.

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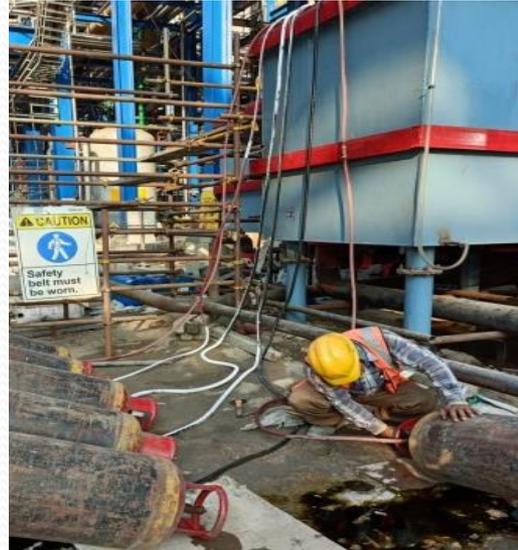
PHOTO GALLERY



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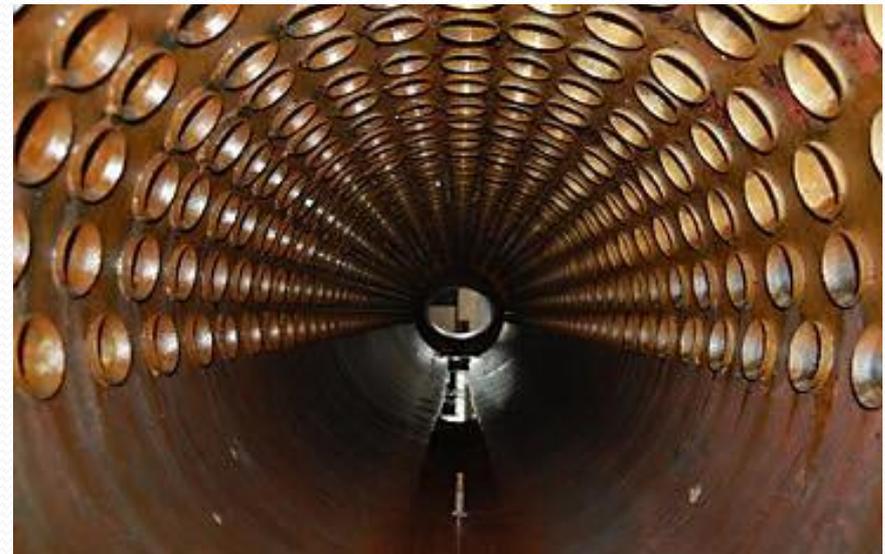
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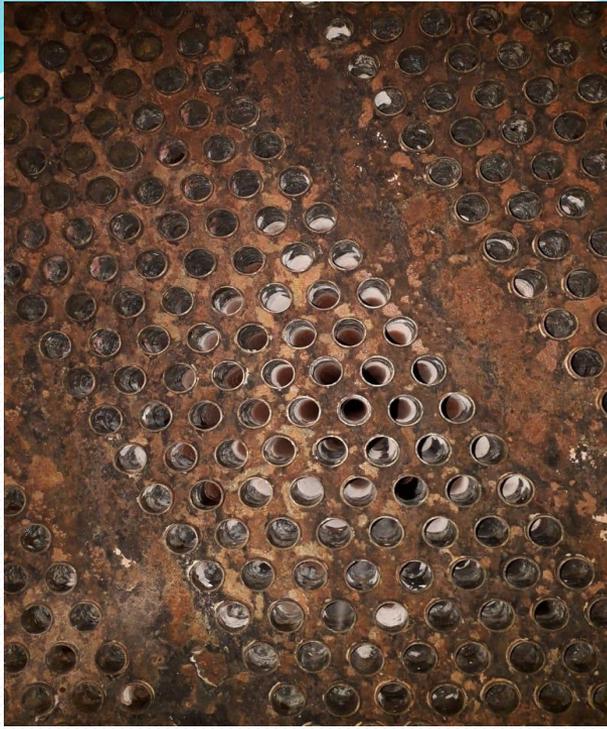
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THANK YOU

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