



VSLPRAYAG GROUP COMPANY PROFILE

ENERGY RE-ENGINEERING & ENERGY SERVICES COMPANY

VSLPRAYAG Group

01

VSL PRAYAG ENERGY SYSTEMS & SERVICES

Flagship company of the Group involved in Energy Management Services, Energy Re-Engineering, Design, Detailed Engineering, Project Management & Energy efficient HVAC & other utility systems. Automation Control System for the HVAC Systems.

02

SAMARTH AIRTECH PRIVATE LIMITED

Manufacturing of Energy Efficient Axial Flow Fans, Centrifugal Fans, Fan Casings, Air Handling Units, Air Washer Systems, Dampers, Rotary Drum Filters, Dampers, Mist Eliminators, Cooling Coils etc.,

03

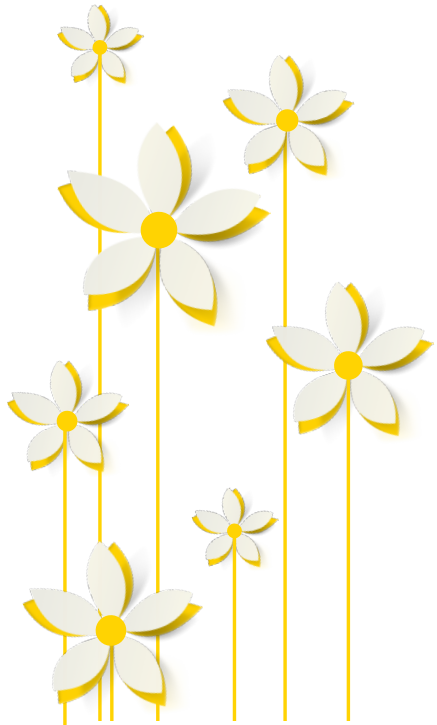
R M INDUSTRIES

Manufacturing of Energy Efficient Dairy Equipment & Pharmaceutical Equipment. Also, manufacturing of HVAC systems suitable for Pharma industries (Clean room Application – Class range).

04

S J INDUSTRIES 'ANALA' Pumps (ASSOCIATE)

Manufacturing of Centrifugal water Pumps up to 600 m³/hr, Water treatment Dosing Systems. Also the dealer of "EBARA" pumps. Approved vendor by BHEL, EIL etc.,



Meet Our Directors



**Dr. VENKATA
SUDHEER L**

MANAGING DIRECTOR,
VSLPRAYAG

DIRECTOR,
SAMARTH AIRTECH PVT. LTD.,



MUNIL SINHA

PRESIDENT (Works),
VSLPRAYAG

DIRECTOR,
SAMARTH AIRTECH PVT. LTD.,



ARUL MOHAN S

TECHNICAL DIRECTOR ,
VODALUFT

PARTNER,
S J INDUSTRIES (ANALA)





VSL PRAYAG ENERGY SYSTEMS & SERVICES

Brief Introduction



ENERGY SERVICES COMPANY

VSL PRAYAG ENERGY SYSTEMS & SERVICES (VSLPRAYAG), the flagship & Energy Re-Engineering Technology arm of VSLPRAYAG Group, has been serving the Indian industry since 28 years.

At **VSLPRAYAG** we facilitate Energy Cost optimisation for All Energy Consumption Centers. Our experts have more than 25 years of experience in the Energy Management in industry:

- Textile & Textile Processing industries
- Power Plants – Small, Medium & Large
- Cement Industry
- Petrochemical - Synthetic & Manmade Fiber
- Pharmaceutical & Chemical Processing etc.,
- Pulp & Paper
- Steel, Iron, Aluminium & Foundries
- Engineering, Automobile, Foundry, Metal & Metal Products
- Sugar, Distillery & Brewery

We take up Turn Key execution to successfully implement the identified Energy Re-Engineering Initiatives with attractive payback periods.

Energy Cost Optimisation through Re-Engineering:

- ❖ HVAC (Pressurisation & Ventilation) (25 ~ 40%)
- ❖ Compressed Air Systems (15 ~ 30%)
- ❖ Waste Evacuation System (15 ~ 30%)
- ❖ Boilers, Thermopacs & Steam System (10 ~ 20%)
- ❖ Pumps & Cooling Water System (15 ~ 30%)
- ❖ Electrical & Lighting System (15 ~ 20%)

Adiabatic Atomisation Cooling System (**AAC**) is Re-Engineered with High Efficiency Fans (Axial flow or Centrifugal) with Ultra Efficient Pumps for AHUs.

we have achieved benchmarking Specific Energy Consumption norms of about **7500 cfm/KW** in Air Handling Units. The conventional systems mostly are found to be below **3000 cfm/kW**. In addition, we generally improve department conditions.

We also manufacture Adiabatic Nebulisation Cooling System (**ANC**) using RO / DM Water.

We offer state-of-the-Art HVAC AUTOMATION SYSTEM, along with VFD Control of Supply Air & Return Air Fans & Pumps. It ranges from simple Semi Automation to Full fledged SCADA systems. We employ SIEMENS Sensors & PLC for all the above mentioned Automation systems.





SAMARTH AIRTECH PRIVATE LIMITED

A Brief Introduction



Incorporated in 1993, over the past 25 years, SAMARTH has been specialized in manufacturing of HVAC (Pressurisation & Ventilation) systems, Air handling units, Industrial (Axial & Centrifugal) fans & blowers as well as complete range of HVAC accessories such as Mist Eliminators, Distribution Louvers, Duct Diffusers, Dampers, Air Washer Spray nozzles, Rotary Dum Filters etc.,.

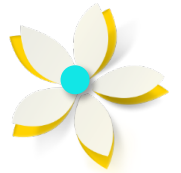
We have supplied our systems to number of countries across the globe – Kenya, Nigeria, South Africa, Bangladesh, Egypt, Thailand.

We are also OEM suppliers for C Doctaire, Voltas etc., who are leading HVAC system suppliers.

Apart from HVAC systems, from our Ahmedabad works, we manufacture & supply a number of Pharma Machinery, lab scale equipment & Diary equipment.

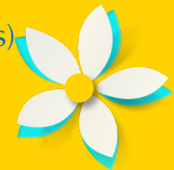
OUR SPECIAL PURPOSE FANS FIND APPLICATION IN:

- Cement Industries
- Power plants – Small, Medium & Large
- Petrochemicals & fertiliser industries
- Process industries
- Metallurgical industries
- Radiators & heat exchangers
- Boiler industries



HVAC, PRESSURISATION & VENTILATION SYSTEM FOR:

- ❖ Cement plants
- ❖ Power plants
- ❖ Electrical rooms like switchgear & bus bar rooms
- ❖ Electrical sub stations (DG & TG control rooms)
- ❖ Bulk drugs & pharmaceuticals
- ❖ Steel plants



DETAILS OF THE SOME OF THE ORDERS EXECUTED IN CEMENT INDUSTRY & POWER PLANTS

S NO	NAME OF CEMENT / POWER PLANT	LOCATION	YEAR	DETAILS
1	PANIPAT THERMAL POWER STATION PANIPAT	PRODUCTION HALL MODIFICATION	2018/2019.	AIR COOLING PLANT
2	RAJ WEST POWER LIMITED BARMAR RAJ.	FIRE DOOR	2017/2018.	40 NOS FIRE DOOR.
3	RAJ WET POWER LIMITED	FIRE DOOR	2018/2019.	FIRE DOOR 40 NOS.
4	SANGHI CEMENT	PANEL ROOM COOLING	2016/2017	300000 CFM
5	M/S, GUJRAT AMBUJA, Himat Nagar, Ahmedabad	AIR COOLING Panel Room	2015/2016	200000 CMH & 150000 CMH
6	M/S, GUJRAT AMBUJA	AIR COOLING & AC	2015 /2016	55000 CMH
7	M/S, BENUE CEMENT COMP-LTD. (MAN B/W DIESEL LTD., NIGERIA NACHMO	AIR VANTILATION	2013 /2014	100000 CMH
8	M/s, BENUE CEMENT COMP-LTD. (MAN B/W DIESEL LTD NIGERIA (NACHMO)	AIR VENTILATION	2013 /2014	60000 CMH 36 NOS
9	M/s, SIDHI CEMENT	AIR COOLING		150000 CMH
10	M/s, SANGHI CEMENT	VENTILATION SYSTEM FOR PANNEL ROOM	2014/2015	36,000 CFM
11	M/s, C. DOCTOR & CO PVT LTD. (L&T)	AIR VENTILATION OEM	2013 /2014	250000 CMH
12	M/S, C DOCTOR For BHEL - RAJSTHAN RAJYA VIDYUT UTPADAN NIGAM LTD. SURATGARH	AIR COOLING FABRICATED	2016/2017	200000 CMH. X 8 SET. PRE FAB
13	M/S, SAURASHTRA CEMENT LTD PORBANDER GUJ.	AIR COOLING PLANT		30 000 CFM Machinery Plant With Ducting
14	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	PRE FAB VENTILATIONS
15	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	60000 CMH X 3 PRE FAB VENTILATIONS
16	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	INCLUDING DUCTING WORK
17	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	PRE FAB VENTILATIONS
18	M/s, BIRLA CORPORATION, Chanderia	AIR COOLING & VENTILATION	2011/2012	50 000 CMH PRE FAB VENTILATIONS
19	M/s, BIRLA CORPORATION, Chanderia	AIR COOLING & VENTILATION	2011/2012	INCLUDING DUCTING WORK
20	M/s, SAURASHTRA CEMENT LIMITD, Porbandar (Gujarat)	DUST ABATEMENT	2007 TO 2012.	40000 CMH; 60000 CMH x 2; 120000 CMH x 2; 250000 CMH
21	M/s, GUJARAT AMBUJA EXPORT UTRAKHAND	HUMDIFICATION PLANT	2012/2013	70000 CMH AHU
22	M/s, GUJARAT AMBUJA EXPORT HUBALI KAR TAK	AIR COOLING PLANT	2012/2013	60000 CMH AHU 90 TR. DX
23	M/s, SANGHI CEMENT	PANEL ROOM VENTILATION	2013/2014	65000 CMH VENTILATION
24	M/s, SANGHI CEMENT LIMITD (GUJARAT)	AIR COOLING / DUST ABATEMENT	2013/2014.	60000 CMH X 1; 120000 CMH X 1
25	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	PRE FAB VENTILATIONS
26	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	60000 CMH X 3 PRE FAB VENTILATIONS
27	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	INCLUDING DUCTING WORK
28	M/s, BIRLA CORPORATION, Chanderia	PRE. & VENTILATION	2011/2012	PRE FAB VENTILATIONS
29	M/s, BIRLA CORPORATION, Chanderia	AIR COOLING & VENTILATION	2011/2012	50000 CMH PRE FAB VENTILATIONS
30	M/s, BIRLA CORPORATION, Chanderia	AIR COOLING & VENTILATION	2011/2012	INCLUDING DUCTING

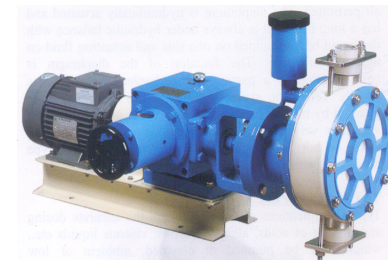


S J Industries, Incorporated in 1997, over the past 22 years, has been specialized in manufacturing of complete range of Fluid pumps under the brand name of "ANALA". We are also dealers of world leader in Pumps "EBARA" & represent them in southern region.

We manufacture the following special application pumps:

- ✓ CHEMASTER POLYPROPYLENE PUMPS
- ✓ STAINLESS STEEL CENTRIFUGAL STUB SHAFT MONOBLOC PUMP
- ✓ BACK PULLOUT TYPE INVESTMENT CAST CENTRIFUGAL PUMPS
- ✓ HYDRAULIC OPERATED DIAPHRAGM PUMP (DOSING / METERING)
- ✓ SLURRY & SLUDGE HANDLING PUMPS

"ANALA" pumps, in addition to being more Energy Efficient, offer trouble free operation with prolonged life – as compared to other brands.



APPROVED VENDOR BY:

- ❖ BHEL
- ❖ DEPT OF ATOMIC ENERGY, CHENNAI
- ❖ M N DASTUR & CO PVT LTD., MUMBAI
- ❖ TATA CONSULTING ENGINEERS LTD., BANGALORE



**VSLPRAYAG TARGETS
TO ACHIEVE
BENCHMARKING
SEC NORMS
THROUGH ITS'
COMPREHENSIVE RE-
ENGINEERING
TECHNOLOGIES**



COMPARISON BETWEEN REGULAR & COMPREHENSIVE REENGINEERING

REGULAR ENERGY STUDY

- a) Existing system design not questioned.
- b) Energy & other parameters measured.
- c) Proposals are presented to reduce the consumption.
- d) Inverters are used to show energy savings instead of avoiding losses.
- e) Equipment Efficiency is used instead of Energy Efficiency
- f) International Norms are not targeted for optimizing the Energy Consumption.

ENERGY RE-ENGINEERING ANALYSIS

- a) Capacity of utility equipment estimated from the user end's requirements
- b) Each & every system component is thoroughly analysed to assess the energy losses (System Resistances)
- c) Energy losses are controlled by necessary modifications
- d) Utility System (Axial Fan / Centrifugal Fan / Blower / Pump) are selected for changed specification to achieve optimum Specific Energy Consumption
- e) SEC is the basis for determining the Energy Efficiency
- f) International Norms are set as target goals.

COMPARISON BETWEEN CONVENTIONAL & BENCHMARKED UTILITY SYSTEMS

CONVENTIONAL SYSTEM

A. COMPRESSED AIR SYSTEM:

Only SEC of Air Compressor (Generation) is looked into.

B. PUMPS:

In most of the cases, Requirement & actual pump (Q & H) rarely matches. VFD is used as general prescription for savings. IE3 motor is used for saving energy.

BENCHMARKED SYSTEM

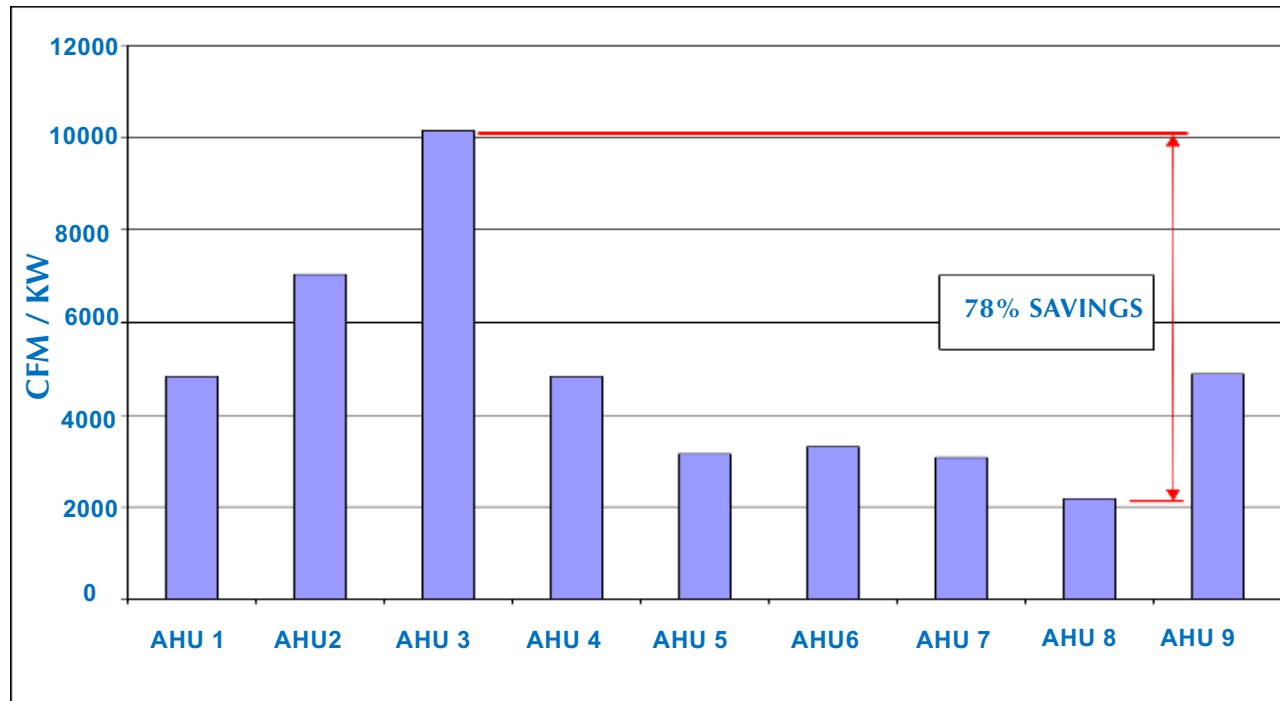
A. COMPRESSED AIR SYSTEM:

Compressed Air Distribution & Utilisation losses are analysed to enhance the system energy efficiency.

B. PUMPS:

If each & every pump is looked from stand point of its requirement (Q & H) then it is possible to reduce the energy consumption by not less than 20 to 30%. This is our experience.

COMPARISON OF CONVENTIONAL & BENCHMARKING HVAC
AFTER IMPLEMENTING EFFICIENT SYSTEMS IN AHU



REF: LAWRENCE BERKELEY NATIONAL LABORATORY, U S DOE (IN A PHARMACEUTICAL UNIT)





LIFE CYCLE COSTING OF UTILITY EQUIPMENT

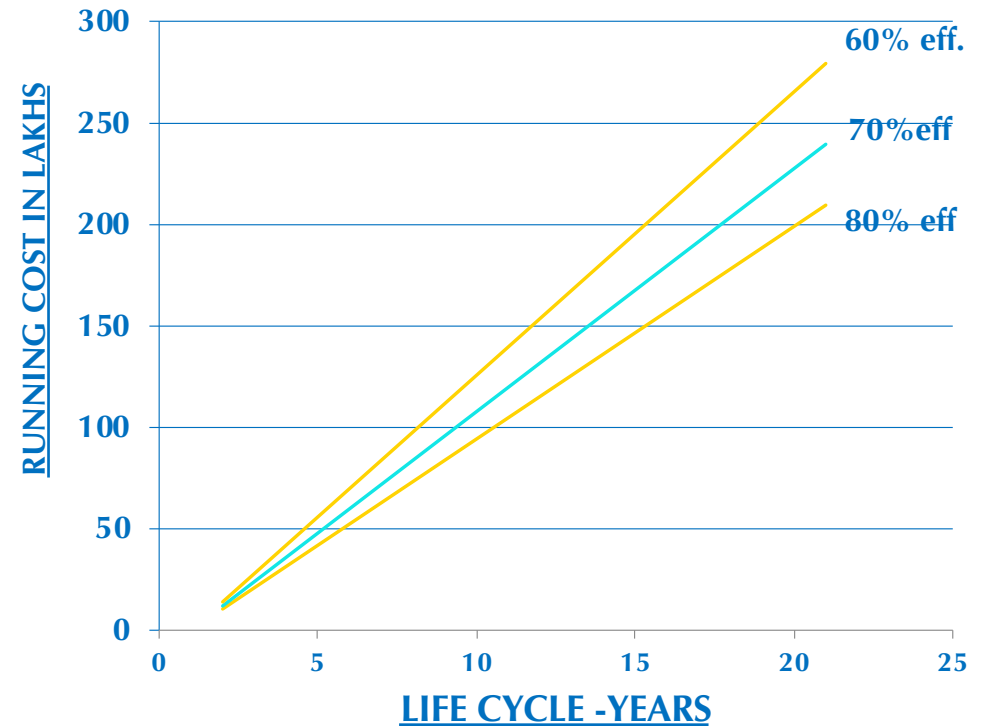
LCC CONSISTS OF 3 MAJOR COST COMPONENTS

- A. **CAPITAL COST** OR INITIAL COST OF THE EQUIPMENT;
- B. **OPERATING COST** (ENERGY COST & LABOUR COST – SAY FOR 10 OR 15 YEARS (OR FOR ITS' LIFE TIME)
- C. **MAINTENANCE & SPARES COST** FOR ITS' LIFE TIME



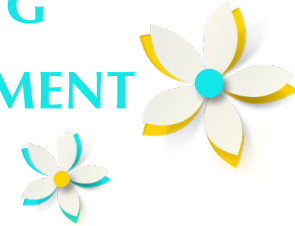
$$LCC = A + B + C$$

Efficiency Of Pump (100 m3/hr & 70 M Head)	INITIAL INVESTMENT	LIFE OF EQUIPMENT	RUNNING COST/Hr	RUNNING COST/ANNUM	TOTAL COST FOR LIFE TIME
%	Rs. Lakhs	YEARS	Rs. P	Rs. Lakhs	Rs. Lakhs
50	1.10	20	299.21	16.76	336.30
60	1.20	20	249.34	13.96	280.40
65	1.30	20	230.16	12.89	259.10
70	1.50	20	213.72	11.97	240.90
75	1.60	20	199.48	11.17	225.00
80	1.80	20	187.01	10.47	211.20
81.5	2.00	20	183.57	10.28	207.60

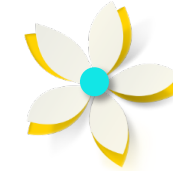




AIR HANDLING UNIT IN A CEMENT PLANT



The air handling units (AHU) are used in air conditioning applications and consist of (either direct expansion (DX coil) or chilled water) cooling coil, Centrifugal Blower / Axial Fan along with accessories such as Dampers and Filters. Depending upon the class of air required (Particulate matter) type of filter at the suction or delivery is decided. Fan capacity (Flow & Head) is decided by the Cooling Load, Air Changes/hr & AHU system components and face velocity at which it is decided.



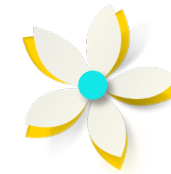
VENTILATION SYSTEM

A perfect ventilation is achieved by using both supply & exhaust air systems. Generally the supply air would be having 15 to 20% higher air volume than the exhaust so as to keep the atmosphere in the building at higher pressure than outside and reduce the infiltration of dust and other unwanted contaminants into the process area.

Such systems find relevancy in Cement, Pharmaceutical, Power Plants, Textile and so on.



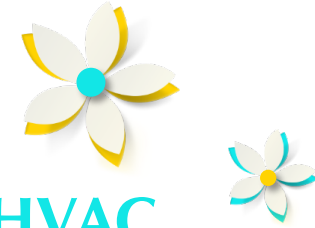
ULTRATECH CEMENT, KUTCH
Switch Gear Room Pressurisation System



PRESSURISATION SYSTEM



The objective for creating pressurization effect inside any Industrial building space is, to achieve the dust proofing which in majority of the cases is the equipment & process need and can be achieved by cleaning the incoming air and conditioning wherever necessary. The degree of cleanliness depends upon the process being carried out in an industry and can be achieved by employing a suitable filter media viz-a-viz HEPA, ULPA etc,

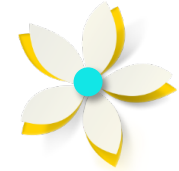


DG ROOM HVAC PRESSURISATION

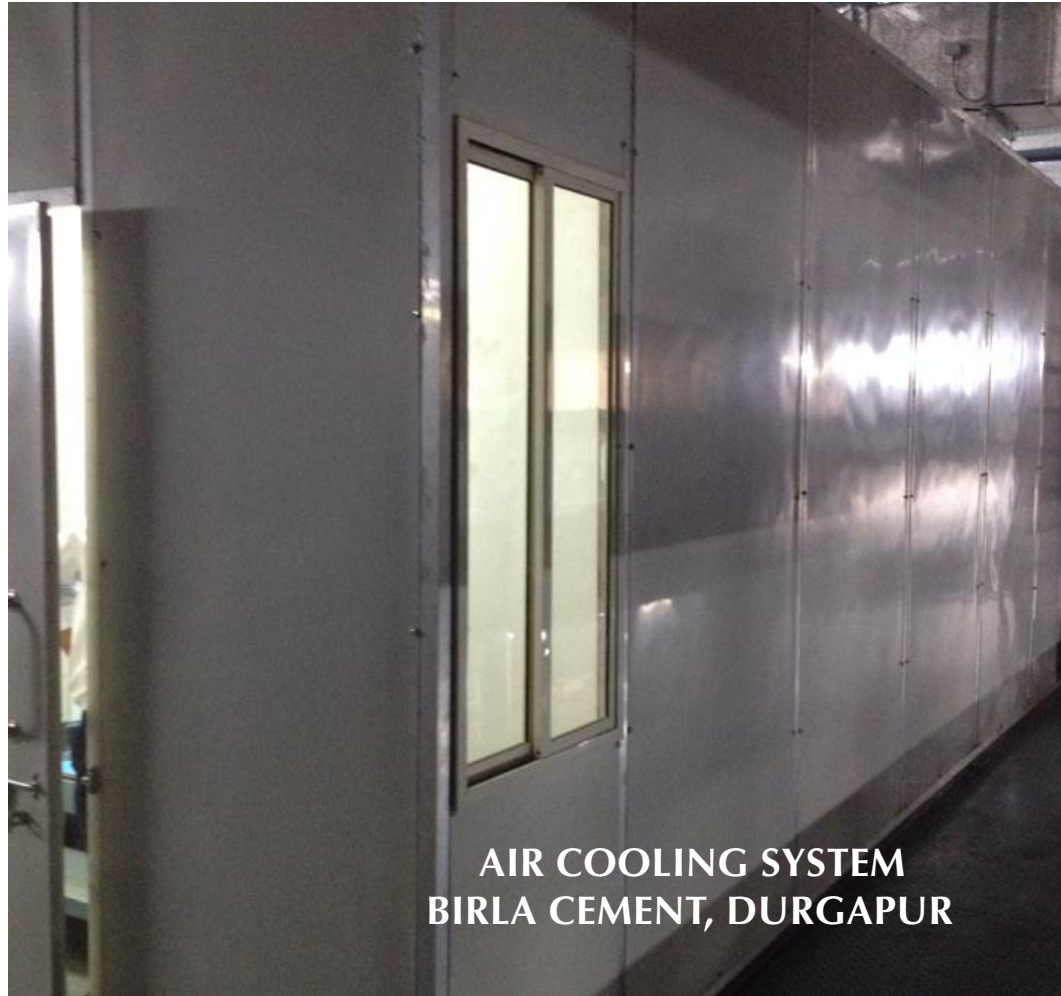
Proper Ventilation is very much necessary for efficient working of DG sets. For effective operation, dust free environment must be ensured. This necessitates a Pressurisation system for the DG Room which works on the principle of Adiabatic Atomisation Cooling and provides necessary cooling inside the DG hall.



TURBINE ROOM PRESSURISATION SYSTEM



As Turbine Generator Control room needs a stringent dust free environment, effective systems are designed to avoid dust / particulate entry inside. Generally, TG room necessitates a Pressurisation system which works on the principle of Adiabatic Atomisation Cooling and provides necessary cooling inside the DG hall.



PREFABRICATED HUMIDIFICATION SYSTEM



Adiabatic cooling is an economical method to maintain optimum temperature and humidity. Water evaporates cooling the air in the process. Since no heat is added or removed from the system, it is called adiabatic Cooling. The saturation efficiency of air after passing through the wet section comes to around 85 – 90%. Since air is humidified, it is also called Humidification System.

These systems are either provided in civil construction / Prefabricated structures as shown in picture.

We offer Spray type system (AAC) / Micro Mist system (ANC) or Cellulose Pad type system depending upon application.



10/04/2012

Mr. L VENKATA SUDHEER,
Energy Expert
VSL PRAYAG ENERGY SYSTEMS & SERVICES
New No.9 (Old No. 35), Samanthi Street, Brindavan Nagar
CHENNAI - 600 092

We are glad to mention that after implementation of Adiabatic Nebulization Cooling (ANC) System along with Energy Efficient Aluminium Blade Fans in our SULTEX WEAVING Department, we have achieved the following benefits:

1. We are able to save Substantial Energy in Supply Air Fans, Pumps & Return Air Fans. Annual Savings given below
2. We could maintain required RH in the department.

Saving Achieved:


BEFORE MODIFICATION POWER CONSUMPTION	
Old H Plant Power (SA Fan + Pump + RA Fan)	= 53 Kwh/Hr
New H Plant Power (SA Fan + Pump + RA Fan)	= 30 Kwh/Hr
Total Power Before Modification	= 83 Kwh/Hr
AFTER MODIFICATION POWER CONSUMPTION	
Old H Plant (Existing plant 90000CFM)	= 27.5 Kwh/Hr
New ANC System & EE Fans (50000CFM)	= 18 Kwh/Hr
Total Power After Modification	= 45.5 Kwh/Hr
Total Energy Saving	= 37.5 KWH per Hr
Annual Saving = 37.5X0.8X24X360X Rs 4.30/kwh	= Rs 11.14 LAKHS/ANNUM

Our Management appreciates the efforts taken by you in this Energy Management Initiative. We are now planning to implement your ANC System in all our Humidification Plants.

We once again wish to convey our Appreciation & Best Wishes to all your future endeavours across the Industry.

GRASIM BHIWANI TEXTILES Ltd.,


R SUBRAMANIAM
COO


ARUL PRAGASAM
VICE PRESIDENT



Grasim Bhiwani Textiles Limited (A Subsidiary of Grasim Industries Ltd.)
Unit : Bhiwani Textile Mills, Bhiwani - 127 021, Haryana, India

Telephone +91 1664 242577
Fax +91 1664 242575

Website www.grasimbhiwanitextiles.com

Regd. Office : 409, Cotton Exchange Building, Kalbadevi Road, Mumbai-400002

OBEETEE®

MANUFACTURERS & EXPORTERS OF FINE HANDKNOTTED CARPETS & DHURRIES
(A GOVERNMENT OF INDIA RECOGNISED TRADING HOUSE)

REGISTERED OFFICE

MIRZAPUR

Date: 15.03.2012

To,

VSL Prayag Energy Systems & Services
Chennai-600 092

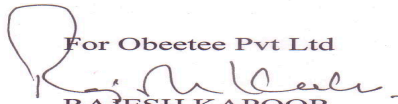
Kind Attn: Mr. L Venkata Sudheer
Dear Mr. Sudheer,

We are glad to mention that after implementation of Energy Cost Reduction Proposals suggested by you in the year 2007, we have achieved the following benefits.

1. By installing the Gasifier system for DG sets, we could reduce the power cost considerably as compared to 100% running on Diesel.
2. We have also achieved Energy savings in pumps, lighting systems.

We appreciate the efforts taken by you in this energy management initiative.

We once again convey our best wishes to all your future endeavors across the industry.

For Obeetee Pvt Ltd

RAJESH KAPOOR
(President-Operations)

OBEETEE PRIVATE LIMITED

Registered Office : BISUNDERPUR, CIVIL LINES, P.O. BOX NO. 4, MIRZAPUR - 231 001, INDIA. PHONES: 91-5442-252304, 252610, 252052, 266199
FAX: 91-5442-252413. E-MAIL: obtindia@obeetee.com WEBSITE: www.obeetee.com CABLE: OBEETEE, MIRZAPUR-231 001.
BANKERS : STATE BANK OF INDIA, SPECIALISED COMMERCIAL BRANCH, VARANASI- 221002.

Noida Office : A-45, SECTOR- 64, PHASE-III, NOIDA, UTTAR PRADESH, PIN CODE - 201309. PHONES : 91-120-4690200 FAX : 91-120-4690201
E-MAIL: obtdelhi@obeetee.com. BANKERS: ALLAHABAD BANK, PARLIAMENT STREET, NEW DELHI - 110 001.

भारत सरकार
नवीकरणीय और नवीकरणीय ऊर्जा मंत्रालय
Government of India
MINISTRY OF NEW AND RENEWABLE ENERGY
ब्लॉक नं. 14, केन्द्रीय कार्यालय परिसर, लोदी रोड, नई दिल्ली-110003
BLOCK NO. 14, C.G.O. COMPLEX, LODI ROAD, NEW DELHI - 110 003

Fax : 011-24361298

Telegram : RENEWABLE

सं.
No. SNES/DAC/Nominations/38/2005

दिनांक 04.11.2008

Dated

To
Shri L. Venkata Sudeer
New No-9 (Old No-35),
1st Floor, Samanthi Street,
Brindavan Nagar,
District - Chennai,
TamilNadu- 600 092.

Subject: District Advisory Committee on Renewable Energy – Nominations regarding.

Dear Sir,
Congratulations!
As you are aware that Shri Vilas Muttemewar, Minister for New and Renewable Energy has recommended your name for the membership in a District Advisory Committee (DAC) on Renewable Energy for district, **Chennai, Tamil Nadu**. We are happy to inform you that your name has been accepted by the Ministry for the membership of DAC. We are forwarding your name to the District Collector, **Chennai, Tamil Nadu** for inclusion in the DAC already set up/being set up in the district.


This Ministry is setting up DACs on Renewable Energy in every district. The DACs are headed by the **District Collector** whereas the Project Director of the District Rural Development Agency or Chief Executive Officer of the Zilla Parishad are its Member Secretary. The main objective of the DAC would be to create awareness about various renewable energy devices and systems appropriate for a given district. A note indicating objectives, composition of the committee, terms of reference etc. is enclosed herewith for your information (**Annexure**).

We hope that you will actively participate in this important Committee and give the benefit of your experience for effective functioning of the Committee with the objective of promoting the use of renewable energy devices/systems in the district.


You are requested to kindly contact the **District Collector, Chennai, Tamil Nadu** alongwith your bio-data and two recent passport size photographs (with your signature and name written on the backside) for further necessary action and your participation in the DAC.

Thanking you

Yours faithfully


(Dr. Arun Kr. Tripathi)
Director / Scientist-F

Copy to :
District Collector, **Chennai, Tamil Nadu** with request that above nominated member may kindly be included in the DAC of your district under intimation to the nominated member and this Ministry.


(Dr. Arun Kr. Tripathi)
Director / Scientist-F

S No	ENERGY RE-ENGINEERING INITIATIVE @ RAYMOND KOLHAPUR	Year	KWH BEFORE	KWH AFTER	KWH SAVED	Annual Savings
						(Rs. Lakhs / Annum)
1	Re-Engineering of LUWA Weaving 1 Room & Loom H Plant (including EE Fan & ANC System along with Treated Water) & Enhancement of Air Changes in Department And VFD installation for additional SA & RA Fans	2014	9660 KWH/Day	6750 KWH/Day	2910 KWH/Day	Rs. 68 Lakhs/Annum
2	Re-Engineering of LUWA Weaving 2 Room & Loom H Plant (including EE Fan & ANC System along with Treated Water) & Enhancement of Air Changes in Department And VFD installation for additional SA & RA EE Fans	2014				
3	Re-Engineering of LUWA Old Warping H Plant (including EE Fan & ANC System along with Treated Water) & Enhancement of Air Changes in Department And VFD installation for additional SA & RA Fans	2014				
4	Re-Engineering of LUWA Sample Weaving H Plant (including EE Fan & ANC System along with Treated Water) & VFD installation for EE Fans	2014				
5	New Warping H Plant along with EE Fan, ANC System & Treated Water	2015	NEW SYSTEM			
6	Semi Central ANC System in 6 Departments & treated water	2015&17	NEW SYSTEM			
7	Ultrasonic Nebulisation Cooling System in Packing Department	2014	NEW SYSTEM			
8	Processing 1 & 2 and Dyeing 1 & 2 H Plant along with EE Fan, ANC System & Treated Water	2015	NEW SYSTEM			
9	Direct Nebulisation System (DNS) in Yarn Conditioning Rooms	2017	NEW SYSTEM			

YEAR	CHILLER + H PLANT			REMARKS
	AVERAGE KWH/Day (FROM ACTUAL ENERGY METER READINGS)	KWH SAVED/Day	% SAVING	
2011 - 2012	8675	BEFORE ENERGY SAVING INITIATIVE		
2012 - 2013	9660			
2013 - 2014	5999	3661	37.90%	
2014 - 2015	6756	2904	30.06%	With addl fans
2015 - 2016	7126	2534	26.23%	With higher Speeds
2016 - 2017	6504	3156	32.67%	
2017 - 2018	7005	2655	27.48%	Incl New Warping

S.K. Tyagi

October 11, 2010

Mr. Venkata Sudheer L
VSL Prayag Energy Systems & Services
No. 30A, "Sathyalok"
Samanthi Street
Brindavan Nagar
Chennai-600 092

Dear Sir,

Please refer various energy saving projects suggested by you at our CTL factory.

We are pleased to confirm that the team CTL has implemented all the projects under your guidance and support and we have been able to generate a saving of 7100 units per day till 30.09.2010.

The pending work about air system is going on and as confirmed by you and vendors, it will be completed by 15th Nov 2010 and with this there would be additional savings of a minimum of 1400 units per day. With this the total savings would be 8500 units.

We wish to convey our sincere thanks to you and your team and look forward to have more such projects with you at CTL and with in our Group.

Kindly also suggest projects for CTL's other unit at Pondichery and further in respect to Baglur factory as we discussed.

Best Wishes for your forward journey for many more such projects for textile Industry at large.

Thanking you,

Yours faithfully
For **Cheslind Textiles Ltd.**


Prakash Maheshwari
Director

Cheslind Textiles Limited
(A Subsidiary of RSWM Ltd.)

Bangalore Office :
No.147, 12th Main, 3rd Block
Koramangala, Bangalore - 560 034, India
Tel. : +91-80-42557555 / 25538622
Fax : +91-80-25538559
E-mail : cheslind@vsnl.com
Website : www.cheslind.co.in

Regd. Office & Factory :
B. Muduganapalli, Bagalur - 635 103
Hosur Taluk, Krishnagiri Distt., Tamil Nadu, India
Tel. : +91-4344-254184, 254187
Fax : +91-4344-254276
E-mail : cheslind@cheslind.com

Corporate Office : (LNJ Bhilwara Group)
Bhilwara Towers, A-12, Sector-1
Noida - 201 301 (NVR-Delhi), India
Tel. : +91-120-4390300, 2541810 (EPABX)
Fax : +91-120-2531648, 2531745
Website : www.rswm.in

NATIONAL TEXTILE CORPORATION LIMITED, SOUTHERN REGIONAL OFFICE, 35-B, SOMASUNDARAM MILLS ROAD, COIMBATORE - 641 009									
ENERGY CONSERVATION STUDY ON HUMIDIFICATION PLANT									
COMPARATIVE STUDY REPORTS									
STUDIES CONDUCTED JOINTLY BY THE MILL & M/s. VSL PRAYAG ENERGY SYSTEMS & SERVICES, CHENNAI									
NAME OF THE MILL : SRI RANGA VILAS G.S & W. MILLS									
HUMIDIFICATION PLANT STUDIED : CONE WINDING HUMIDIFICATION PLANT									
FORMAT II									
EXISTING ARRANGEMENT - WINDING HUMIDIFICATION PLANT (READINGS S NOTED DURING 23.05.2012 to 28.05.2012)									
S NO	EQUIPMENT	DESIGNATED SI. No.	INITIAL HOUR METER READING	FINAL HOUR METER READING	HOURS RUN	INITIAL ENERGY METER READING	FINAL ENERGY METER READING	TOTAL ENERGY CONSUMED (KWH)	AVERAGE Units/Hr
1	Supply Air Fan	SA FAN 1	297.72	389.56	91.84	111.2	163.3	3126	34.04
2	Supply Air Fan	SA FAN 2	4453.77	4542.01	88.24	43.1	93.6	3030	34.34
3	Air Washer Pump	AW PUMP 1	14404.43	14433.73	29.3	83.8	93.8	300	10.24
4	Air Washer Pump	-							
5	Return Air Fan	RA FAN 1	383.07	421.81	38.74	23704	23724.2	1212	31.29
6	Return Air Fan	RA FAN 2	101.97	125.33	23.36	7932	7943.7	702	30.05
TOTAL									139.95

REPLACEMENT DETAILS - WINDING HUMIDIFICATION PLANT (READINGS S NOTED DURING 17.05.2012 to 21.05.2012)									
S NO	EQUIPMENT	DESIGNATED SI. No.	INITIAL HOUR METER READING	FINAL HOUR METER READING	HOURS RUN	INITIAL ENERGY METER READING	FINAL ENERGY METER READING	TOTAL ENERGY CONSUMED (KWH)	AVERAGE Units/Hr
1	Supply Air Fan	SA FAN 1	4332.12	4407.32	75.2	177.9	211.9	1020	13.56
2	Supply Air Fan	SA FAN 2	127.54	202.79	75.25	88.9	102.5	816	10.84
3	Air Washer Pump	ANC PUMP 1							
4	Air Washer Pump	ANC PUMP 2	14305.1	14380.26	75.16	2875.4	2886.4	165	2.20
5	Return Air Fan	RA FAN 1	290.4	364.6	74.2	23676.3	23697.8	645	8.69
6	Return Air Fan	RA FAN 2	8.72	83.53	74.81	7898.4	7926.3	837	11.19
TOTAL									46.48

for SRV MILLS, MILL ENGINEER

कृते नेशनल टेक्सटाइल कारपोरेशन लि.
For National Textile Corporation Ltd.,
युनिट: श्री रंगविलास गिनिंग, स्पिनिंग & वेडिंग मिल
Unit: Sri Rangavilas Ginning, Spinning & Wvg. Mills

for VSL PRAYAG ENERGY SYSTEMS & SERVICES

जी. चंद्र मौली / G. CHANDRA MOULI
महा प्रबंधक प्रभारी / GENERAL MANAGER I/c.



VSL PRAYAG ENERGY SYSTEMS & SERVICES

EXECUTIVE SUMMARY

S No	ENERGY RE-ENGINEERING LOCATION	ANNUAL ENERGY SAVINGS AFTER RE-ENGINEERING (Rs. Lakhs/Annum)
1	Preparatory H Plants – LDM 50 & LDM 100	Rs. 117.52 Lakhs/Annum
2	Lagan H Plants - # 11	
3	Ring Frame H Plants - # 12 & 12A	
4	Winding H Plant - # 13	
5	Weaving 1 H Plants - #7, #8 & #22 Looms	
6	Chiller Energy Savings (Weaving & LDM 50)	Rs. 48.10 Lakhs/Annum
	GRAND TOTAL ANNUAL ENERGY SAVING	Rs. 210.62 Lakhs/Annum

NOTE: In the above Summary, LDM 100 H Plant saving is not considered, as it is due for installation.

for JAYASHREE TEXTILES

VSL PRAYAG ENERGY SYSTEMS & SERVICES

AVINASH SINGH

HITESH FANDOT

VIVEK K SINGH

Dr. VENKATA SUDHEER L



Thank you