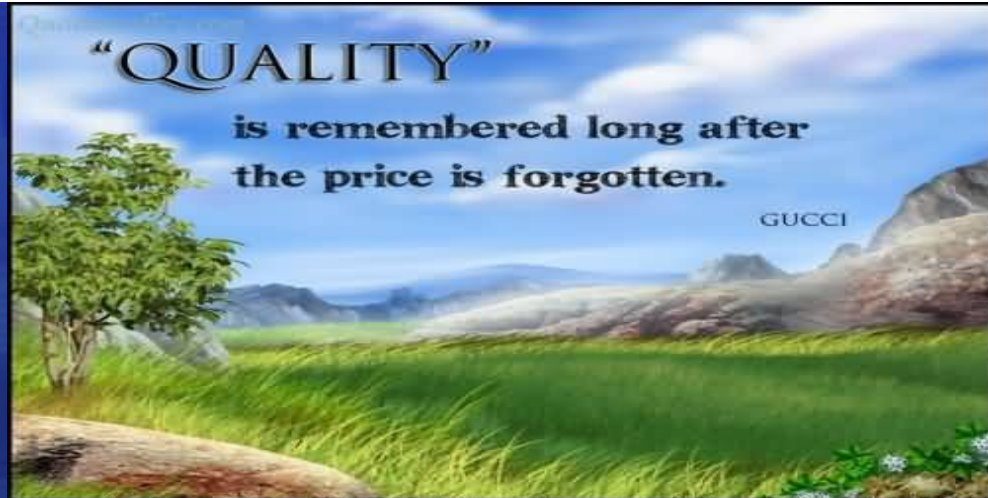




Company profile

ORENI RESOURCES LLP

(Audits – Fire Safety , Electrical Safety & Energy audits)



Content



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Core Purpose, Mission & Values of ORENI RESOURCES LLP

Core Purpose

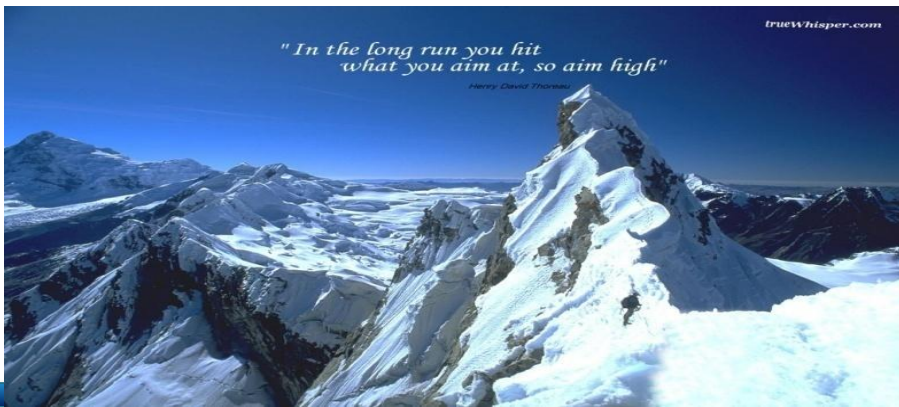
- To provide feasible , customized and optimized solutions to corporate , industrial, manufacturing ,residential ,real estate , healthcare sector,education sector and diverse sectors under one umbrella
- To protect the assets and human life by providing audits, giving value addition and safety of premises .

Mission

We are committed to provide a safer & secured tomorrow by innovating & creating value for our customers, business associates, employees and partners.

Values

Integrity ;Quality ;Commitment ;Excellence ; Value Addition





Services in Nutshell

A Audits

1. Electrical Safety Audits, Power quality audits , Thermography audits , Vibration analysis etc
2. Energy Audits
3. Fire Safety Audits
4. Air conditioning system health check up.
5. Energy Saving Model (ESCO) etc

B Rectification of systems post Audits

C Training Programs-

1. Fire Training Programs
2. **SELF DEFENCE TRAINING PROGRAMS**
3. Fire Evacuation Drills
4. First Aid & CPR training programs



Profile of Associates : Fire Safety & Electrical Safety.

- **Electrical Safety & Energy Audits** carried out by BEE Certified Energy Auditor – M.Tech (Energy), BE (Mechanical), Government License Electrical Contractor, Energy Conservation Consultant , Energy and Electrical Safety Consultant , Electrical Engineer- M.Tech (Control System), BE (Electrical) engineers .
- **Fire Safety Audit & Training Solutions** : Fire Safety Audit & Trainings are carried by a Certified Safety Professional .





Our Approach

Approach

Our philosophy is based on functional & technical innovation focused to achieve balance between business practice and technological value and we accomplish these goals through uncompromised professional approach followed by excellence .

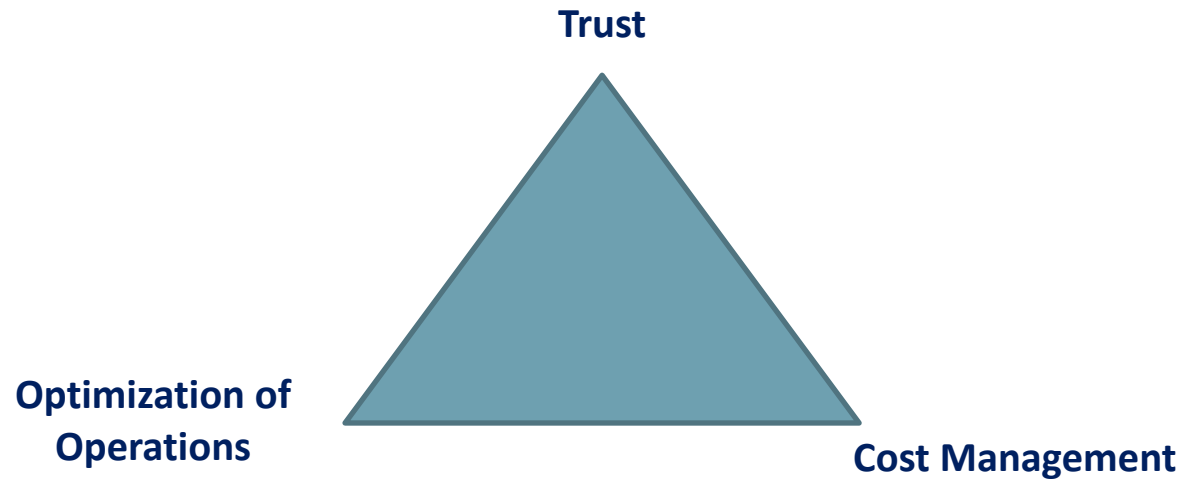
The clients which we are catering to are from

- Corporate Sector
- Industrial Sector
- Real estate sector
- Education sector
- Finance sector
- Healthcare sector etc





Objectives



Scope of Fire safety audit

- Safety Audit will be carried out by certified professionals ,as per Guidelines of National Building Code 2016. All applicable Management and Technical elements of NBC-2016 will be covered for the safe operations of the Branch/ Office.
- Fire & Safety Audit will be conducted on the basis of checklist prepared under,
- National Building Code of India 2016
- The norms given under Fire NOC, etc & other customised relevant standards as per the requirement of client across diverse sectors

The scope of Safety Audit would broadly include :

- Compliance of Statutory requirements pertaining to Fire
- Management Systems
- Training Plans
- Identifying the Source of ignition
- Neighboring Hazard
- Identifying the Source of fuel
- Fire Hazards and their control measures
- Fire Safety arrangements made at the site
-

- Smoke Management
- Air-conditioning systems
- Access control systems
- Exit and Escape systems
- Electrical systems and personal safe guarding
- Review of Emergency Planning, Preparedness and Response system
- Open areas available
- Automatic Fire Notification & Detection System
- Automatic Fire Control System
- Emergency and emergency informing system
- Signage and Indicating boards
- Employees participation in Fire and Safety Management
- First-Aid and Emergency Medical facilities, etc.
- **Note:** Generally, all the above inspections, reviews, etc. are carried out on a sampling basis.

Scope of Electrical safety audit

Physical inspection of all electrical panels and distribution boards to identify electrical hazards (shock, fire, explosion, overloading) and to suggest electrical safety solutions

- Review of hazardous area classification and selection of flameproof electrical equipment in the plant, including maintenance aspects
- Review of electrical preventive maintenance system (including tests, documentation, history cards, etc)
- Review of electrical accidents and near misses in the building to identify the root causes
- Review of electrical systems & procedures (work permits, interlocks, lockout tags, etc).
- Review of the importance given to electrical safety in the safety policy, safety committee, continuous electrical risk identification, etc.

- To identify areas of overloading by carrying out load current measurements and compared against cable current carrying capacity calculation
- Hotspot detection of PCC and MCC electrical panels using thermal imaging camera (Model :-Flir E-6)
- Review of the earthing system (installation & maintenance aspects), checking of earth pit testing reports. Earth pit testing of on sampling basis to verify the result with annual test reports .
- Preparation of electrical safety audit report – In report, only abnormal findings and hotspot location will be highlighted. Other normal findings will be highlighted in summary only.
- Presenting our recommendations/ suggestions with cost implications (wherever possible) in the final report, along with digital photographs.
- Discussion on the audit report and finalizing the action plan to resolve those issues.
- Submitting the Management Abstract

Scope of Energy audit

Energy Audit: -

It is the verification, monitoring and analysis of use of energy including submission of technical report containing recommendations for improving energy efficiency with cost benefit analysis and an action plan to reduce energy consumption

Scope of Audit

1) Electricity Supply & Distribution network

Detailed examination of the existing energy use of the facility with breakup

Lagging & Leading KVARh study – Requirement required kVAR capacity to maintain power factor at unit on lagging side

Measurement & analysis of demand & power factor, suggestions to reduce the demand and improve the power factor.

Performance evaluation of selected motors, 10HP & above, to identify under/over loading of motors

Study & examination of use of electrical energy, cost balance with breakup

- Study on Metering system and suggestion for improvement
- Energy distribution breakup on floor wise & department wise
- Study on V, I kW fluctuating & profiling, V & I imbalances in the network
- Suggestion for reducing the network loss and to improve monitoring system

- **2 Air Handling Units (AHU)**

- Evaluation of actual output delivered by air handling units against rated capacity
- Measurement of actual velocity, area, flow and power consumption
- Evaluation of specific power consumption kW/TR
- Recommendation for energy saving options with cost benefit analysis

- **3 Electrical study**

- Transformer Load Management: - to evaluate the operating efficiencies of the Transformers considering years of service of the equipment, loading & efficiency.
- Power Factor Management: - To measure power factors at different bus levels/feeders, compensation required and the overall effect of reactive power compensation. Rationalization of location of capacitor banks.

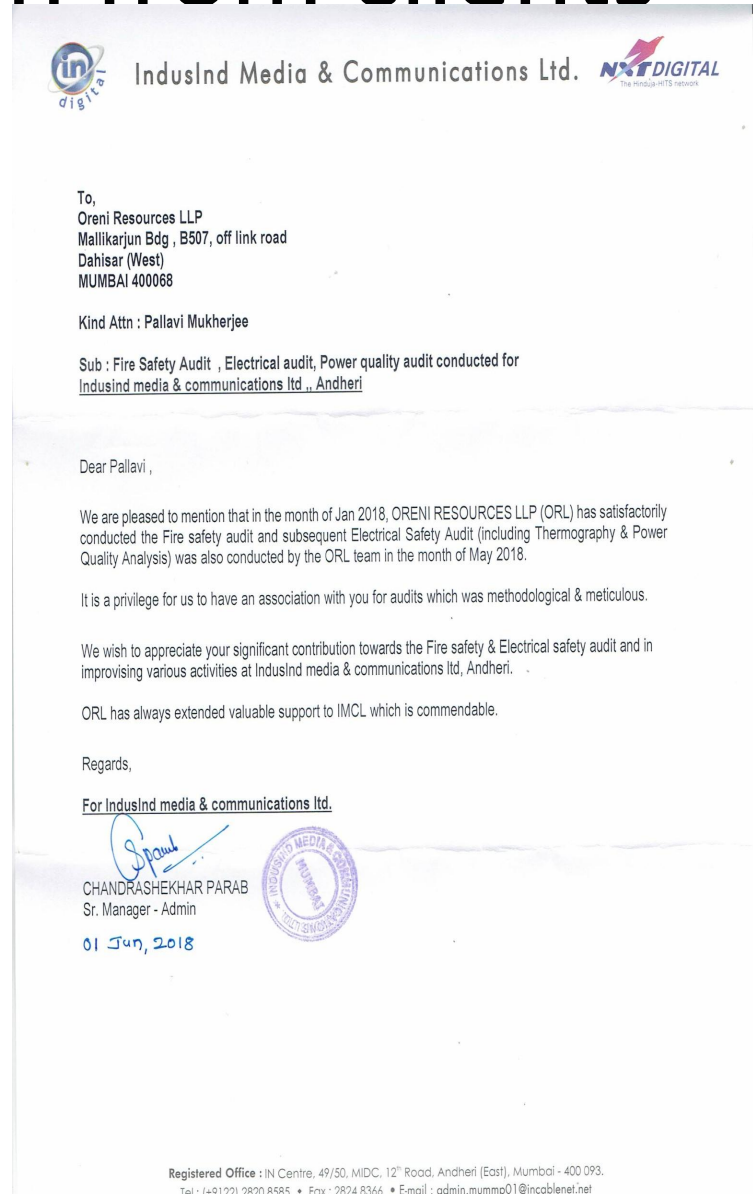
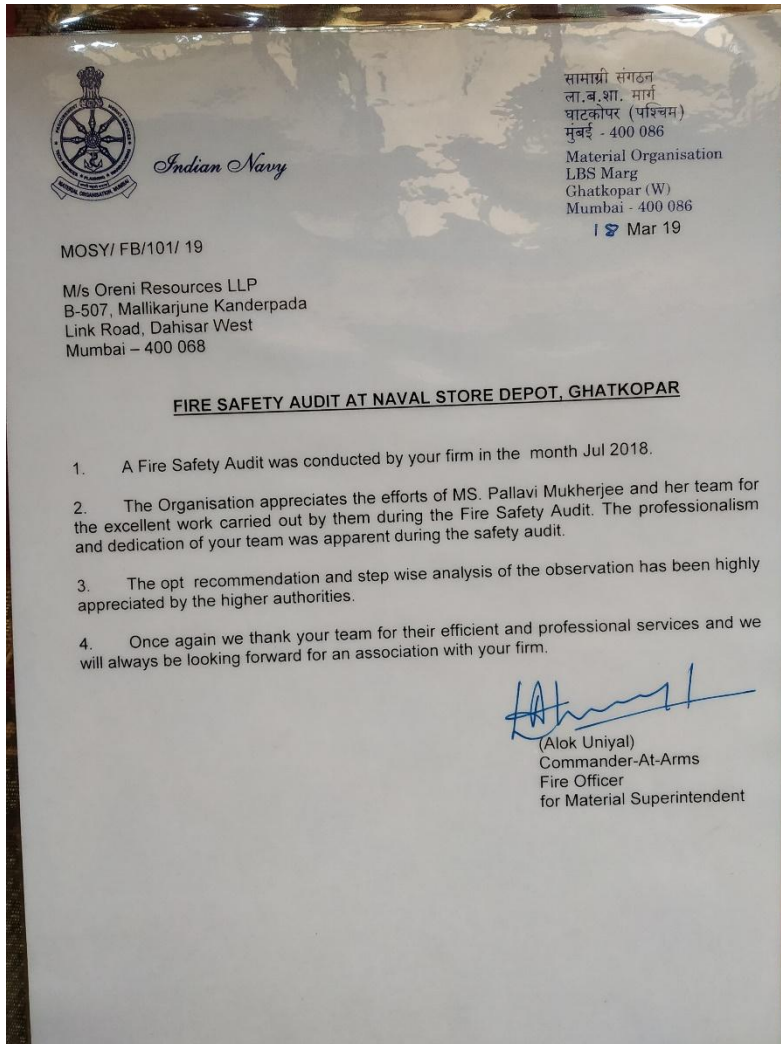
- **4 Lightning**

- Examination of the lighting system in all the areas/floors, measurement of illumination levels, etc to improve lighting efficiency and optimizing lighting levels as per ECBC Standard & comparison (ECBC-2006) published by Bureau of Energy Efficiency (BEE) Govt. of India.
- Explore possibilities to reduce energy use by incorporating energy efficient lighting system, equipment and lay out changes.
- Study of operating electrical parameters like voltage etc in the lighting circuits.

- **5 Report Preparation & Submission**

- Presenting our recommendations/ suggestions with cost implications (wherever possible) in the final report, along with digital photographs. Also attached will be a sample copy of new or revised checklists, procedures and maintenance practices, if any
- Discussion on the audit report and finalizing the action plan to resolve those issues.
- Submitting the Management Abstract

Appreciation from clients



Appreciation from clients



Date : 12th December 2017

To,
Oreni Resources LLP
Rock Garden, D302 off link road
Dahisar (West)
MUMBAI 400068

Kind Attn : Pallavi Mukherjee

Sub : Electrical Safety Audit conducted for JSW Properties

Dear Pallavi,

We appreciate ORENI RESOURCES LLP (ORL) for successfully completing the Electrical Safety Audit of JSW Properties . ORL 's dedication to perfection and their highly motivated team were instrumental in successfully guiding us technically.

We sincerely congratulate and thank ORL for delivering the detailed Electrical Safety Audit report and we look forward to a continuing association with them.

Best Regards,



Sudhir Shelar

Chief Engineer - Facility

JSW Energy Limited

Regd. Office : JSW Centre,
Bandra Kurla Complex,
Bandra (East), Mumbai - 400 051
CIN : L74999MH1994PLC017041
Phone : +91 22 4288 1000
Fax : +91 22 4288 3000
Website : www.jsw.in

Why Us (oreni resources llp)

- Competitive team of engineers & auditors
- Subject matter experts in respective fields and certified professionals having more than 2 decades of experience in audit fields .
- Vast experience of working with corporates ,government bodies , conglomerates ,healthcare sector, educational sector , industrial sector , residential & commercial sector etc.
- Multisector audit experience pan India
- Associated with esteemed clients like Indian Navy, Jindal Group, Torrent Power , Torrent Cables , Consulates , Kalpataru Group, Republic Group , Nielsen India, National Payment Corporation of India, World Trade Centre , Hinduja Group , Hindalco , Star TV etc



THANK YOU from
ORENI RESOURCES LLP
MUMBAI

Pallavi Mukherjee

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