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transformers & rectifiers (india) ltd

TARIL DARSHAN

Global Warming

The future is not somewhere we are going. It is something we are creating. Every day we do things that make some futures more probable and others less likely.

Eco-friendly, going green and carbon footprint are trendy buzzwords these days. But behind the buzz, there is a **REAL need for each of us to take action, and yes we can make a difference.**

This article outlines some ways that we can act to help prevent the Earth from warming further..

Get educated. Educate yourself about **global warming.** The more facts that you have as to what mainstream science says about it, the more you can persuade others to make simple yet effective changes in daily behavior.

Choose vegetarian meals.. Choosing vegetarian foods also drastically reduces agricultural water consumption and land use, and favorably impacts biodiversity.

Use compact fluorescent bulbs. Replace three frequently used light bulbs with compact fluorescent bulbs and save 300 lbs. of carbon dioxide. A standard compact fluorescent bulb will save around one third of a tonne of greenhouse gas.

Use recycled paper. Make sure that your printer paper is 100% post consumer recycled paper. Decide whether something is really worth printing out. Leave a signature at the bottom of your e-mails reminding the reader to think twice before printing the e-mail.

Consumption of organic food

Consumption of organic food should be increased because organic soil absorbs large amount of carbon dioxide. Buying local food reduces the consumption of fuel. Cows emits large amount of methane due to their vegetarian diet. Hence meat consumption should be reduced.

Buy locally made and locally grown products. Buy locally to reduce the energy required to transport your goods.

Support producers of renewable energy. Alternatively, you can buy wind certificates, green tags and stock in renewable energy companies.

Buy minimally packaged goods. Less packaging could reduce your garbage significantly, saving 1,200 pounds of carbon dioxide.

Grow fast growing plants. Plants like bamboo grow faster and produce 35% more oxygen than trees like oak or birch, and require fewer chemicals and care.

Use public transportation. Taking the bus, the train, the subway or other forms of public transportation lessens the load on the roads and reduces one's individual greenhouse gas emissions by an average of 1600 pounds per year.

Buy a hybrid car. The average driver could save 16,000 lbs. of CO2.

Buy a fuel efficient car. Save up to 20,000 lbs. of carbon dioxide per year using a more fuel efficient car

Practice green driving. Save gas and lower stress levels by being a considerate driver.

Keep your car tires adequately inflated. Under-inflated tires can reduce fuel economy by up to 3% and are subject to increased wear and tear.

Change your air filter. Check your car's air filter monthly. Save 800 pounds of carbon dioxide. Clean or replace filters on your furnace and air conditioner. Cleaning a dirty air filter can save 350 pounds of carbon dioxide a year.

Use the "Off" Switch

Save electricity and reduce global warming by turning off lights when you leave a room, and using only as much light as you need. And remember to turn off your television, video player, stereo and computer when you're not using them.

Encourage Others to Conserve

Share information about recycling and energy conservation with your friends, neighbors and co-workers, and take opportunities to encourage public officials to establish programs and policies that are good for the environment.

transformers & rectifiers (india) ltd

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INHOUSE MAGAZINE
a quarterly newsletter

"Coming together is a beginning. Keeping together is progress. Working together is success." – Henry Ford

This year, TARIL Family has come together once again to lead our beloved company to greater heights. The highest ever capacity transformers were dispatched during this quarter. In achieving this milestone, TARIL Family has proved once again that when minds are filled with burning ambition, distant dreams can be turned into reality by dedicated team – work. The company has achieved recognition from several quarters; prominent among them being the award of 'Most Valued Customer' by India's premier research and testing institute-CPRI.

Several team-work exercises have been conducted and festive events celebrated which have ensured the employees bond together. Instant awards have also helped in a big way in recognizing the immense contributions made by TARIL family members.

As we step into the future...Let us come together and continue working to make our dreams a reality.

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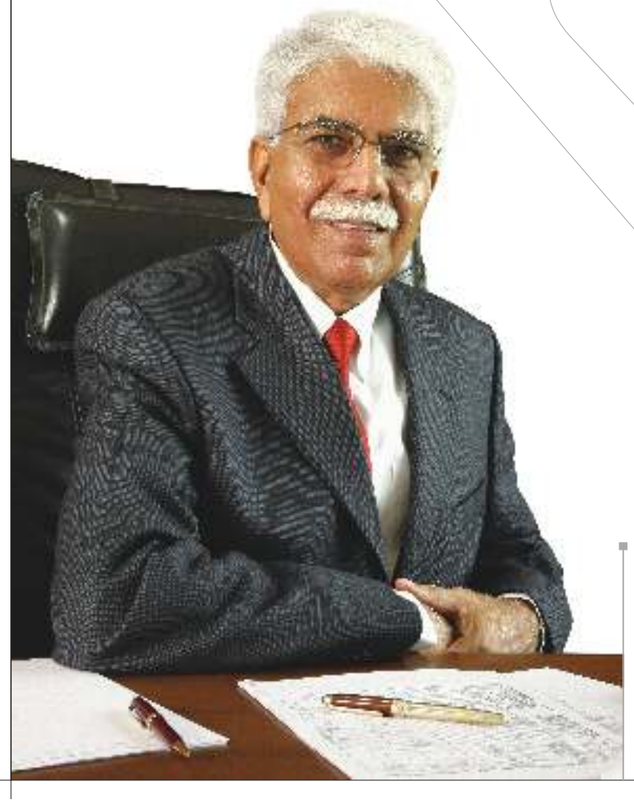


Chairman & Managing Director's Message

Dear TARILIANS,

In the last newsletter, I had mentioned with pride on my sense of fulfillment on creating and inaugurating a state of the art manufacturing facility at Moraiya. The thought that went behind conceptualizing this facility was well aligned with our organisational goal to create a world class infrastructure to manufacture and test large power transformers all the way up to 765kV, 1200MVA. To realize this, it was also necessary to revisit and make systemic changes to firm up pathways of excellence from the realization of an order to the point of delivery. There was also a need to migrate to new technologies, reengineer traditional processes, retrain the team and define a best practices culture which one will willingly adopt and implement. We are in the process of doing that and I am sure we will feel the derived benefits of these initiatives as we go along.

I would also like to congratulate our team on receiving two very motivating recognitions... the Best Supplier Award from GETCO for 2009-10 and the Most Valued Customer Award from CPRI.

Once again, I wish you all the best and hope we power ahead as a motivated team in the next financial year.

Wishing you all a great year ahead,

Jitendra Mamtora
Chairman & Managing Director

Moraiya Start Up

T&R's hi-tech Moraiya plant, inaugurated on the 29th of May 2009, was a dream come true. The foundation at Moraiya began with the installation of latest heavy machineries as the vital technology back-bone for the transformer manufacturing process. The installation of vertical winding machine and a new fabrication unit along with a pre-planned distribution of manpower ensured that the new plant was on a trajectory of exponential growth. A convergence of key resources of the company was brought about for the Moraiya plant. Right from the commencement of the plant, a balanced mix of manpower was achieved which consisted of employees with long experience and expertise in design and manufacturing of transformers, along with the trusted, loyal souls who have been associated with T&R right from its inception, and a team of fresh, energetic and young professionals who were ready to take on new challenges. It was this winning combination of resources working in close collaboration with each other that enabled the success of the new Moraiya plant.

The new plant with every essential facility for its staff and workers is not only a beautiful place to work in but also an big opportunity for all TARILians to grow with the company by meeting the target of 16000MVA. The enthusiasm was clearly visible in the eyes of one and all when the first 400kV transformer for M/s. Lanco Infratech Limited rolled out of the dispatch bay of Moraiya Plant on 24th November 2009.

The successful roll out of the 400kV transformer from the Moraiya plant speaks volumes about the commitment, efficiency and know-how of the team that achieved this key milestone. Mentioned herewith are the experiences and feelings of individuals who played a significant role in this new start-up at Moraiya.

Working Experience at Moraiya

RAMESH SOYANTAR - (VPD Section) EID - 96

Working at the new Moraiya plant is a dream come true for me. We have worked hard to lay a strong foundation for Moraiya and it is our responsibility to maintain it as a world-class transformer manufacturing facility.

KANTIBHAI PARMAR - (Core) EID - 287

It makes me very happy to see that the company has progressed at a rapid pace and attained new heights after the commencement of Moraiya plant. From the time we took big manufacturing assignments here, my knowledge has also increased greatly. i really appreciate the systematic placement of plant machinery and equipments at Moraiya. Making our first 400 kV class transformer was an unforgettable experience and this in itself is a motivating factor for me and my team to take up bigger assignments in the future.

PREMAL PATEL - (Winding) EID - 308

The setting-up of the Moraiya Plant has been an exhaustive leaning experience for me. At Moraiya I got the chance to develop my skills which I had acquired at Changodar Plant. All the team members got the opportunity to learn the processes right from planning to implementation and operations. We developed every procedure right from scratch. Working on Vertical Winding Machine was an amazing experience for us. We are trying to make processes more system driven in Moraiya and are developing new winders in order to meet future demands.

HITENDRA NAYAK - (CCA) EID - 233

The Moraiya plant is enormous in size and equipped with advanced machinery and facilities. This plant has offered me a great learning environment with an opportunity to take up new challenges. I really appreciate the system of 'shoe covers' which not only ensures dust-free floors but also a good housekeeping. This enables a hygienic working condition conducive to both employees and transformer manufacturing. Being a member of 400 kV class transformer team was a great learning experience for me.

KANTI PATEL - (Core) EID - 113

The facility at Moraiya is massive and everything is arranged in a very systematic manner. To construct and erect such a big plant is a difficult task but to maintain this plant is even more challenging. I have been able to gain substantial knowledge on manufacturing 400 kV class transformer and I am ready to contribute towards such high-rated assignments in future. We got a chance to develop new skills by having a unique mix of team members which included both fresh hands to implement and experienced hands to guide.

400 kV Class Transformer

It was a matter of immense pride to witness the successful dispatch of first 400 kV class Transformer on 24th November 2009 from the Moriya Plant. As the transformer gracefully rolled out of the Moriya Plant, every TARIL employee exuded enthusiasm and confidence, reflecting their commitment to take the organisation's dreams and achievements to the next level. The first 400 kV Transformer rating 80/40/40 MVA, 400/11.5/11.5 KV Station Transformer was dispatched from T&R's Moriya Plant to M/s. Lanco Infratech Limited, to their Lanco Anpara Thermal Power Project in Uttar Pradesh. This historical landmark will open up new avenues of business and set the company on a mode of rapid growth and expansion. T&R is brimming with exciting future plans which include bagging more orders of 400 kV class and developing capabilities to manufacture higher class transformers.

First 100 MVA Job from Moraiya

T&R has always believed in leading by example, by creating new pathways for others to follow, by opening new windows of opportunity through innovation. It is important to develop new product capabilities to keep pace with emerging market needs. The challenge of developing a product for the first time in a new plant requires an amalgamation of knowledge, experience and commitment. It was this challenge that the team took up to produce its first 100MVA job for Aptransco, which was also the first dispatch from Moraiya plant. Kudos to all the employees who have contributed to make this happen!

"Do not follow where the path may lead. Go instead where there is no path and leave a trail."

First 200 MVA Job

Manufactured and Commissioned Successfully

T&R's first 200MVA, 220/132/11kV Transformer supplied to MSETCL, Amravati substation was dispatched from Changodar Plant on 28th July 2009. The transformer reached the site on 10th August 2009. The erection work started on 26th November 2009 and was commissioned on 12th December 2009.

Higher Rating Rectifier Transformer

T&R recently manufactured, tested & dispatched three Rectifier Transformers of rating 38 MVA/33kV/ 421.5v for M/s. Hindustan Zinc Ltd. The new techniques and first time features in these transformers are:

1. Use of Aluminum Plate of 50 mm thickness for risers mounting.
2. Use of codex copper conductor. It is a continuously transposed conductor bunched with the help of codex wire.
3. Use of crimping joints in place of brazed joints.
4. Auto transformer mounted on top of the main transformer.
5. Vertical heat exchangers used. (Usually T&R uses horizontal heat exchangers)
6. Use of PVC conduit wiring.
7. Jobs dispatched on low bed trailers with fabricated frame all around the transformer to protect it from tilting during transport.

It was a matter of great pride for the team to manufacture, test & dispatch such special transformer despite of numerous hurdles and challenges they faced during manufacturing and commissioning.

By Sunil Gurubaxani – Production Dept.

Introduction of Crimped Joints

in place of Brazed Joints in Furnace Transformers.

Crimped joints are now being used in place of brazed joints for connecting the leads to main bus bars of furnace transformers.

Crimped Joints have the following advantages:

1. Crimping is faster than brazing process and saves 50% time.
2. Crimping operation gives neat and clean appearance as there is no heating of leads & bus bars and hence no need to use cooling material.
3. It is easier to carry out maintenance in case of rework.

The following points need to given consideration while using Crimped Joints:

1. Proper selection of lugs to suit ampere rating.
2. Proper selection of crimping dye.
3. Proper insertion of packing to fill the voids between ID of lugs and rectangular strips of lead.
4. Number of crimping per lugs with leads (at least at two places)
5. Holes on barrel of lugs to check proper insertion of lead in the lugs.

By S. Ponnappan – Q.A. Department

Where there is the necessary technology to move mountains, there is no need for the faith that moves mountains.

- Eric Hoffer

PD Free Transformer

One of the major tasks to be achieved is that the job should be made Partial Discharge free.

The major sources and causes of partial discharge in a transformer are:

1. Void or cavity in insulation.
2. Sharp edges of the electrodes, i.e either in line or earth electrode.
3. Trapping of air inside the transformer, not only in insulation but in other parts of the transformer such as bushing turrets, BCTs etc.
4. Floating potentials due to unearthed objects or objects not connected to a fixed potential.
5. Poor electrical contacts and loose connections.
6. Multi-point earthing.
7. Surface discharges and discharges in laminated materials on the interfaces of different dielectric materials such as permawood oil interface, PB oil interfaces etc.
8. Treeing channels: This is caused by high intensity fields in insulating material at its sharp edges e.g. Radial Spacers.

By eliminating all the above sources/causes of PD, the job can be made PD free for which the guidelines given below shall be followed.

(1) CORE AND CORE FRAME ASSEMBLY:

SR. NO.	DESIGN	PRODUCTION / QA
1.1	A) The sharp edges on the core frame or support provided for fixing D.W. lead supports where leads pass nearby should be smoothened.	A) Wherever specified in the drg. the sharp edges shall be smoothened by grinding the surface.
	B) Indicate suitable corner radius for core frame where leads pass nearby and for supports on core frames.	B) Ensure that proper corner radius is provided as per drawing/requirement
1.2	**SINGLE POINT EARTHING**	
	A) A drawing showing single point earthing shall be prepared and issued.	A) Ensure that the core and core frame is earthed conforming to core - earthing drg.
		B) Suitable tests/checks shall be done to ensure single point earthing
		C) Ensure that no part of the core /core- frame is left unearthed resulting in floating potential

(2) COIL & INSULATION:

2.1	Indicate in the insulation structure drg.and in connection drawing, the insulation thickness of lead wires
2.2	In the connection drg. indicate the following under note :
A)	All sharp edges on braced joints should be smoothened
B)	1 layer of metallised paper shall be wound over the joints before insulating with creep paper.
C)	The insulation for the lead wires shall be provided strictly as shown in the lead sections.

CONDUCTOR SURFACE & TURN INSULATION

1)	There should be not any cut or scratches on the conductor surface.
2)	Ensure that the turn insulation is provided as per conductor specification and winding specification.
3)	Ensure that turn insulation is provided tightly on the conductor leaving no chance for developing any void or cavity.
4)	Ensure that leads are provided with the insulation thickness as indicated in the drawing.
5)	Ensure all sharp edges on the braced joints are smoothened.

2.3	Lead section for HV, LV line lead, LV neutral - leads, tap leads shall be shown & indicate the insulation thickness for each lead.	6) Ensure 1 layer of metallised paper is provided over braced joints.
2.4	Give a section of the tap lead bunch and indicate the lead nos. This is to ensure that adjacent leads are placed with lesser tap differences.	7) Ensure tap leads are arranged as per drg.
2.5	Issue a separate drg for all angle- rings indicating the details. Moulded insulation materials can be a major source of PD, as there are all chances of developing voids in moulded insulating materials.	8) Moulded angle rings shall be thoroughly inspected for its quality, surface finish, voids, foreign matters etc. before use. 8) Permawood clamp - rings shall be thoroughly inspected for its quality, foreign matters, bonding of lamination etc. Ensure that impregnation holes are provided in clamping ring as per drg.

(3) TANK:

1	Give a note on tank drg. that welding projection inside the tank shall be smoothened	1) Ensure that welding projections are smoothened.

(4) BCTS:

1	_____	1) Secondary terminals of BCTs shall be connected together.

(5) PROCESSING:

- The internal body of the transformer shall be thoroughly cleaned using compressed air/vacuum to remove dust, loose pieces of paper etc. before putting transformer in drying oven.
- Hot air drying, vacuum drying, oil impregnation, vacuum before final oil filling, oil filling, hot oil circulation, shall be done

(6) TESTING:

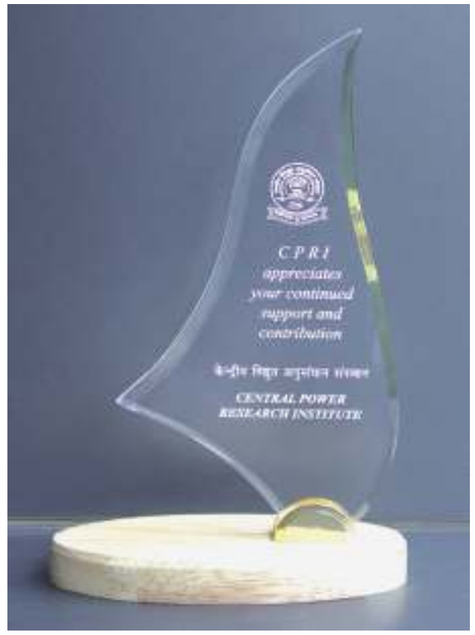
- Suitable shields shall be provided at the head of the bushings covering the terminal and expansion chamber to avoid external corona. This shield shall be provided for all bushings.
- All the nearby objects to the tested transformer shall be properly earthed (i.e. terminals of other transformer and tank) and this earthing should be separate one. The transformer under test should be earthed to testing shop earth only. There should be not any interconnection between the two earth connections. This is to avoid background noises.

Odhav Initiatives

IMPROVEMENTS	BENEFITS
200 KVA DG set installed for plant motive power as well as carry out, in-house Heat Run Test of the Transformer if required.	Adding Infrastructure is not only a contingency plan about also useful as test equipment.
Apart from three Winding machines, two machines have been upgraded with Variable Frequency Drive and the third one is in process.	Improvement in quality of winding; reduction in machine down time and spare cost, thus resulting in power saving and better safety.
Hydraulic Bus Bar machines have been introduced to bend the Bus Bar of various sizes.	Reduction in assembly time, easy and desired bending of Bus Bar with least man hours.
Electrical interlocking introduced between EOT Cranes to eliminate collapse.	It will ensure safety and reduce break down.
Vacuum Oven Burners are controlled at different set point to get minimum tolerance around the set point.	Job temperature shall be maintained close to set point which will reduce the drying process time.
Water Pipeline introduced from main gate to assembly area.	Fire at minor level can be handled from the range of about five meters.

By - Dilip Kiri (On Behalf of Odhav Team)

CPRI Awards



The Central Power Research Institute (CPRI), India's premier research and testing institute under Ministry of Power, has recognised Transformers & Rectifiers (India) Ltd. as their 'Most Valued Customer'. The award was received by Mr. M. Purushothaman, GM-Marketing, T&R. The company has been regularly utilizing CPRI labs at various locations for testing of transformers. In the year 2008-2009 alone T&R carried out Dynamic Short Circuit Test on five Power Transformers in continuation up to 90 MVA 132 KV range at CPRI, Bangalore and on two Power Transformers in continuation up to 25 MVA 132 KV range, all of which successfully passed the test. This prestigious award was conferred by CPRI in appreciation of T&R's successful testing of transformers and various other parameters. The award is another feather in the cap for T&R after it won the 'Best Supplier' award from GETCO for the year 2007-2008. The passion and commitment of our employees have established T&R's credence in every sphere of its operations enabled it to earn the confidence and good-will of all our stakeholders.

Congratulations to all TARILIANS !

Congratulation TARIL !!!

3RD BATCH: In line with the successful passing out of the previous two batches, the third batch of TRISE completed its rigorous training. The successful participants have been absorbed and they are now a part of TARIL family with effect from June 2009.

The course completion certificates were distributed to all the 18 participants. To motivate the participants and to set an example for TRISE batches to come, Certificate of Merit with prizes were awarded to the top two performers of TRISE 3rd batch (1st and 2nd position) as under:

- 1st position – Shri Choksi Dishant J.
- 2nd position – Shri Devada Shailesh M.

In the certificate distribution ceremony held on 4th of July 2009, participants' parents were also invited thereby enhancing the motivation level of participants.

4TH BATCH: TRISE selected participants by conducting a campus interview at the institute. T&R selected final year students on the basis of previous years' aggregate percentage. The eligibility criterion for entrance test was only for Top 10 students from each institute (E & M). The institute intends to get the best students for its 4th batch.

The training will commence on 1st July 2010 (tentative date which depends upon completion of their final sem. examinations).

- Prof. V. G. Patel

ITI Development Plan, Sanand

IMC members meet every month to review the progress and development of the institute.

Start this year, a new course of COPA (Computer Operator and Programming Assistant) has been introduced and Transformer winder course is next in the pipeline. Since, Sanand ITI is currently operating from a rental premises, the institute faces space constraint. The new ITI building near Sanand, on Sanand – Viramgam highway is already under construction and as per the contract term, TRISE is scheduled to get possession of the new building in August 2010.

- Prof. V. G. Patel

Training

Achievement Motivation Training

Vendor Development Programme

ISO 9001:2008

Awareness Training Program

Medical Health Check up

Well at Work Initiative

"Courage means to keep working a relationship, to continue seeking solutions to difficult problems, and to stay focused during stressful periods."

HR DESK

Face to Face

Face to Face with Mr. Pareshbhai Parekh (Emp. No. 00000063)

My career with Transformer & Rectifiers (India) Limited began in January 1995 as a Testing Engineer at T&R's Odhav Unit in Ahmedabad.

Odhav unit's production capability for Transformer Manufacturing at that time was up to 7.5 MVA 33 kV class.

Thereafter, by improving our quality productiveness in the Industry, we produced 12.50 MVA 66 kV class Transformer and was successfully tested with Lightening Impulse Test at Govt. Recognized Laboratory ERDA, Vadodara.

After the successful Testing – our unit was awarded a Purchase Order from GEB for 10.00 MVA & 15 MVA-66 kV class of Transformers and the order was successfully completed. The Impulse Test on this transformer was carried out in-house without any external technical help for which I awarded my very first Complimentary Cheque in appreciation of my contribution to the successful testing of the transformer.

In line with the unit's constant progress we manufactured 132 kV & 220 kV class of transformer by accepting regular batch orders from various Electricity Boards. I endeavoured to be a useful and energetic resource for my team, and my colleagues and superiors were very encouraging in this regard.

I also tested transformers rating up to 100 MVA 220 kV class of with the help of our HOD Mr. T. Vijayan.

We have strived to achieve higher goals by manufacturing higher rating transformers by continuous upgradation of skills and knowledge.

Today, I have been promoted to the post of Manager (Testing Dept. - Odhav), which would not have been possible without the active support and encouragement of our CMD and JMD, and all my colleagues at work.

We at T&R are committed to put in all our efforts to achieve our CMD and JMD's dream of manufacturing world-class higher rating transformer of 1200 kV class.

As I conclude, I would like to add a famous verse from Bhagavad Geeta:

"KARMANYE VADHIKARASTE MA PHALESHU KADACHANA"

Face to Face with Mr. D.C. Rane (Odhav Unit)

मै. धनराज चिन्दुभाई राणे. मैने अपने केरियर कि शुरुआत 1992 में ट्रान्सफोरमर एन्ड रेक्टिफायर्स इंडिया लि. (ओढव युनिट) से की. इस युनिट में पहले हम यहां पर 3259 KVA तक का ट्रान्सफोरमर बनाते थे. इसी तरह आगे प्रगति करते हुए हमने यहां पर 16 MVA तक का ट्रान्सफोरमर बनाया जिससे हमे एसेम्बलर की पोस्ट दि गयी.

इसी कार्यकाल के दौरान मेरी कार्य क्षमता अनुसार हमारे C.M.D. श्री जितेन्द्र मामतोरा जी ने मूझे सर्विस में ट्रान्सफर किया गया. इसके दौरान हमने 35 MVA तक के ट्रान्सफोरमर साईड पर जाकर सर्विस करते रहै.

आज मैं यहा सुपरवाईजर की भूमिका अदा करते हुवे काफी सम्मान का अनुभव कर रहा हुं.

मैं विशेष रुप से बहुत बहुत आभारी हुं कि मुझे इस तरह कि कम्पनी मिली. इस कम्पनी के मालिक का स्वभाव सभि वर्कर के लिए दुख सुख में सहभागी बने रहना है. इस प्रकार का व्यवहार बहुत ही प्रशंसनीय है और ऐसा व्यवहार मैने अपने जिवन में किसी कम्पनी में नहीं देखा.

हम सभी भगवान को प्रार्थना करते हुवे आशा अभिलाशा रखते है कि इसी तरह ही ट्रान्सफोरमर एन्ड रेक्टिफायर्स इंडिया लि. का सफर चलता रहे और सदा ही चलता रहे और आने वाली सभि सफलता की चोटियों को हासिल करे.

धन्यवाद

HR DESK

CSR

Corporate Social Responsibility

Transformers & Rectifiers (I) Limited takes pride in its commitment to sustainable and socially responsible business practices by encouraging community growth and development and making meaningful contributions to society at large. T&R has been actively involved in community development activities and has donated Rs. 80,000 for 5 schools under the banner of Friends of Tribal Society (FTS).

FTS is a society registered under the West Bengal Societies Act established in 1989 as an All India Organisation. This Society for the last 20 years is engaged in the onerous task of spreading literacy and providing health service to the tribal people living in the remotest areas of our country through its network of Ekal Vidyalayas (One Teacher School). Till date they have been able to cover more than 26,000 villages with more than 8,00,000 tribal children across 20 states in the country.

FTS has evolved a cost effective non-formal primary education system where the One Teacher School operates in a village under a tree (without incurring cost for school building). The teacher is recruited from the same village or surrounding village, and has to have a minimum qualification of Class-Xth. The teacher is then given extensive training and provided with necessary teaching aids to run the school for 3 hours a day at a time convenient to him and the children of the village. The annual revenue expenditure for running Ekal Vidyalayas is Rs. 16,000/- per village. T&R extended its support to this initiative by taking up the financial responsibility of 5 such villages.

Sponsorships

T&R SPONSORS NUCONE 2009

T&R sponsored the mega campus event NUCONE 2009 (National Conference on Current Trends in Technology), organized by Institute of Technology, Nirma University, Ahmedabad, from 25th – 27th November 2009. This multi-disciplinary conference aimed to bring togehter academicians, researchers and experts from the industry related to different branches of engineering on a common platform to share their experience and expertise. T&R's sponsorship of NUCONE 2009 was instrumental in integrating industry expertise with the fresh perspectives of our future engineers on technology and innovation in the direction of creating successful technological solutions for an emerging economy like India.

INDIVIDUAL EXCELLENCE

INDIVIDUAL EXCELLENCE

Eiffel Tower Made from Match sticks:

Ruchit Patel, a Mechanical Engineer working with T&R 's Moraiya plant has created an exact replica of Eiffel tower with an unusual material - Match sticks! This Eiffel Tower solely made of match sticks is 48 cm tall and 28 cm wide. It took him 1 month and 25 matchboxes to complete this creative project. This accomplishment of Ruchir was covered by all major newspapers.

Five years ago, Ruchir had successfully crafted the smallest kite of size 8 mm.

Team Building Exercise (BROKEN SQUARE)

Team Exercise to enhance Communication Skills & Team Dynamicsconducted on 5th Dec'09 at Changodar

Victory Tower Exercise (TEAM WORK, PLANNING QUALITY)

Photography Contest (CLICK)

EMPLOYEE ENGAGEMENT