



Energy Management Centre - Kerala
(Department of Power, Govt of Kerala)

CERTIFICATE OF EMPANELMENT

*This is to certify that **M/s. TUV SUD South Asia Pvt Ltd** (Gulmohar Plaza, Plot No. 1A, 4th Floor, Gulmohar Park, ITI Road, Aundh Pune, Maharashtra - 411007) is empanelled as Energy Audit firm in Energy Management Centre Kerala to conduct mandatory energy audit as per Government of Kerala G.O (Rt) No.2/2011/PD dated 01.01.2011.*

Empanelment No:
EMCEEA- 5323F-1


Scope/Area	Building	Industry -Electrical	Industry Thermal
	Yes	Yes	Yes

This empanelment is valid up to 03/07/2028

Issuing Date: 23/09/2025

Place: Thiruvananthapuram

Director,
Energy Management Centre Kerala

Information of firm									
1.	Name & address of the firm TUV SUD South Asia Pvt Ltd C-153/1 Okhla Industrial Area, Phase-1, New Delhi-110020								
	Office(with STD) +91 11 30889797								
	Mobile +91 9560055124								
	Fax number +91 11 30889595								
2.	Website (if any) www.tuv-sud.in								
3.	Email address Admin.env@tuv-sud.in								
4.	Name ,Designation and address of Contact person Tarun Kumar Kushwaha Assistant Manager TUV SUD South Asia Pvt Ltd C-153/1 Okhla Industrial Area, Phase-1, New Delhi-110020								
5.	Office(with STD) +91 11 30889797								
	Residence(with STD) +91 9560055124								
	Mobile +91 9560055124								
6.	Email address Tarun.kushwaha@tuv-sud.in								
7.	Year of establishment August 1999								
8.	Year of commencement of energy audit by the firm. 2002								
9.	No. of branch offices - (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)								
<table border="1"> <tbody> <tr> <td> HEAD OFFICE Off Saki Vihar Road, Saki Naka, Andheri (East), Mumbai – 400072. Tel: +91-22-30823082 / 9797 Fax: +91-22-30829595 </td> <td> DELHI LAB C-153/1 Okhla Industrial Estate, Phase -1, New Delhi – 110020 Tel: +91-11-30889611 / 9797 Fax: +91-11-30889595 E-mail: munmun.dandona@tuv-sud.in Ashish.ghasi@tuv-sud.in </td> <td> BANGALORE No. 25/2, Shreekanta Mahal, First Cross, Second Floor, Sampige Road, Malleshwaram, Bangalore - 560003. Tel: +91-80-23362113, 23361387 Telefax: +91-80-2336 2113 </td> <td> BANGALORE LAB No. A 151/152, 2nd C Main, II Stage, Peenya Industrial Estate, Bangalore - 560 058 Tel: +91-80-39289848 /855 Fax: +91-80-39289820 </td> </tr> <tr> <td> CHENNAI New No. 105, Sreela Terrace, Second Floor, First Main road, Gandhi Nagar, Adyar, Chennai - 600020 Tel.: +91-4424450691 Fax: +91-44-24450692 </td> <td> PUNE E-15-16, Royal Arcade, 4thFloor, Pune - Satara Road Pune - 411043. Tel: +91-20-24378137, 24362942 Telefax: +91-20-24378138 </td> <td> HYDERABAD 305, 3rd Floor , Navketan Complex, S. D. Road, Secunderabad – 500003. Tel: +91-40-55321871 Fax: +91-40-55321872 </td> <td> KOCHI (COCHIN) 34/2294 C3, R. K. Chambers, Mamangalam, Palarivattom, Kochi - 682025 Telefax: +91-484-5598719 Mobile: 098474 45719 </td> </tr> </tbody> </table>		HEAD OFFICE Off Saki Vihar Road, Saki Naka, Andheri (East), Mumbai – 400072. Tel: +91-22-30823082 / 9797 Fax: +91-22-30829595	DELHI LAB C-153/1 Okhla Industrial Estate, Phase -1, New Delhi – 110020 Tel: +91-11-30889611 / 9797 Fax: +91-11-30889595 E-mail: munmun.dandona@tuv-sud.in Ashish.ghasi@tuv-sud.in	BANGALORE No. 25/2, Shreekanta Mahal, First Cross, Second Floor, Sampige Road, Malleshwaram, Bangalore - 560003. Tel: +91-80-23362113, 23361387 Telefax: +91-80-2336 2113	BANGALORE LAB No. A 151/152, 2nd C Main, II Stage, Peenya Industrial Estate, Bangalore - 560 058 Tel: +91-80-39289848 /855 Fax: +91-80-39289820	CHENNAI New No. 105, Sreela Terrace, Second Floor, First Main road, Gandhi Nagar, Adyar, Chennai - 600020 Tel.: +91-4424450691 Fax: +91-44-24450692	PUNE E-15-16, Royal Arcade, 4thFloor, Pune - Satara Road Pune - 411043. Tel: +91-20-24378137, 24362942 Telefax: +91-20-24378138	HYDERABAD 305, 3 rd Floor , Navketan Complex, S. D. Road, Secunderabad – 500003. Tel: +91-40-55321871 Fax: +91-40-55321872	KOCHI (COCHIN) 34/2294 C3, R. K. Chambers, Mamangalam, Palarivattom, Kochi - 682025 Telefax: +91-484-5598719 Mobile: 098474 45719
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RAJKOT 801, Star Chambers, Harihar Chowk, Rajkot - 360001. Telefax: +91-281-2236865	VADODARA (BARODA) 916 - 918, Siddharth Complex R. C. Dutt Road, Vadodara - 390007. Tel: +91-265-2324604 Fax: +91-265-2324605	KOLKATA (CALCUTTA) 230A, A. J. C. Bose Road, Chitrakoot Building, Space No. 27, Kolkata - 700020. Tel.: +91-33-22833585 Telefax: +91-33-22833579	MUMBAI LAB Off Saki Vihar Road, Saki Naka, Andheri (East), Mumbai – 400072. Tel: +91-22-30823082 / 9797 Fax: +91-22-30829595
COIMBATORE 42, De Sa Ba Colony, West Club Road, Race Course, Coimbatore - 641018 Telefax: +91-422-4389998	NAGPUR 79, 1 st floor, Navab Kuwa Road, Behind Kelkar Mangal Karyalaya, Gokulpeth, Nagpur - 440010 Tel: 0712-6585360 Telefax: 0712 - 2554053	KOLHAPUR "Shreeshilp", 2094 'E' ward, Vikram Nagar, Kolhapur – 416005. Telefax: +91-231-2660603 / 2622099	TIRUPUR LAB 106/2 A, Nehru Street, 15 - Velampalaym, Tirupur - 641 652. Tel: +91-421-3200890 / 1/ 4 / 5 Fax: +91-421-2257559
INDORE 306, D. M. Towers, 21/1 Race Course Road, Indore – 452001. Tel: +91-731-4226582	GOA 115, 1 st Floor, Building S1, Novacidade Commercial Complex, NH 17, Porvorim, Goa – 403 521. Tel: +91-832– 2413831	NASIK Sahyadri Houe, F-1, MICO Circle, Bhavani Chowk, Trambak Road, Nasik – 422002. Tel: +91-253-2580218.	AHMEDABAD 305, Shilp Arcade, 3 rd Floor, Jodhpur Cross Roads, Satellite, Ahmedabad-380015. Tel: +91-79-26926141

Details of Associated Energy Experts and Audits Conducted by firm		
1.	Number of resource persons available	500
2.	Number. of full-time energy auditors in position, with work experience of all energy auditors associated with the firm	<ul style="list-style-type: none"> ➤ AJIT HABBU - EA7530 ➤ B. DILLIBABU - EA 5985 ➤ HIRENKUMAR D SARDHARA - EA-12146 ➤ SALIM MIRZA - EA – 11452 ➤ VIVEK UTPAL – EA - 6379
3.	No. of part-time energy auditors in position during the current year / previous year associated with the firm.	5
4.	Sectors in which the energy audit firm has conducted energy audits since inception and number of audits in each sector	<ul style="list-style-type: none"> ➤ Iron and Steel Sector ➤ Paper and Pulp Sector ➤ Power Plant ➤ Cement Industry ➤ Automobile Industry ➤ Agriculture ➤ Petrochemical Industries ➤ Poly-film Industry ➤ Municipal Sector ➤ Small and Medium Enterprise ➤ Almost all industrial segment.
5.	Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil.	<ul style="list-style-type: none"> ➤ Iron and Steel Sector ➤ Paper and Pulp Sector ➤ Power Plant ➤ Cement Industry ➤ Automobile Industry ➤ Agriculture ➤ Petrochemical Industries ➤ Poly-film Industry

			<ul style="list-style-type: none"> ➤ Municipal Sector ➤ Small and Medium Enterprise ➤ Almost all industrial segments.
6.	Energy audit of thermal utility system (list sectors)		<ul style="list-style-type: none"> ➤ Iron and Steel Sector ➤ Paper and Pulp Sector ➤ Power Plant ➤ Cement Industry ➤ Automobile Industry ➤ Petrochemical Industries ➤ Poly-film Industry ➤ Small and Medium Enterprise ➤ Almost all industrial segment.
7.	Energy audit of electrical utility system (list sectors)		<ul style="list-style-type: none"> ➤ Iron and Steel Sector ➤ Paper and Pulp Sector ➤ Power Plant ➤ Cement Industry ➤ Automobile Industry ➤ Agriculture ➤ Petrochemical Industries ➤ Poly-film Industry ➤ Municipal Sector ➤ Small and Medium Enterprise ➤ Almost all industrial segment.
8.	Instruments available	(a) Electrical (list the name of the instruments)	Detailed Instrument List is attached.
		(b) Thermal (list the name of the instruments)	Detailed Instrument List is attached.

- Please enclose biodata of all Associated Energy Experts in format given below.

LIST OF INSTRUMENT

Sr. No.	Particulars of Instruments	No. of units	Kind and Make	Capacity	Age and Condition
1	3-phase Power and Harmonic Analyser capable of measuring un balanced load with harmonic measurement and data logging facility	1 No.	Make: Yokogawa, Model: CW-240F	0-3000 amp	Age: 1 yr. 7 months Good Condition.
2	3-phase Power and Harmonic Analyser capable of measuring un balanced load with harmonic measurement and data logging facility	1 No.	Make: Energy Explorer, Model: 11100042	0-3000 amp	Age: 1 months Good Condition.
3	3 phase power analyser for balance load with harmonic measurement (NANOVIP)	1 No.	Make: Krycard, Model: NANOVIP-Plus	0-1000 amp	Age: 2 yrs. Good Condition.
4	Digital Ultrasonic Flow meter	1 No.	Make: Dynasonics, Model: DTFX-P	0-12 m/s upto pipe size of 2.5 m	Age: 1 yr.
5	Ultrasonic Water Flow Meter	1 No.	GE		Good Condition
6	Analog Pressure Gauge	1 No.	ALTOP		
7	Anemometer	1 No.	Make: Lutron, Model: AM-4201	0.4-30 m/s	
8	Anemometer	1 No.	Make: Kusam Meco		
9	Lux meter	1 No.	Make: TES-Digital, Model: 1330A	Range (0 - 20,000) lux	Age: 2 yrs. Good Condition.
10	Lux meter	1 No.	Make: LUTRAN LX-101	Range (0 - 20,000) lux	Age: 2 yrs. Good Condition.
11	Lux meter	1 No.	Make: Lutron, Model: AM-4201	Range (0 - 20,000) lux	Age: 1 yrs. Good Condition.
12	Sling type psychrometer	1 No.	JRM thromometer	0-50 C DBT/WBT	Age: 2 yrs. Good Condition.
13	1-phase clamp meter	1 No.	Make: Meco, Model: DT-2250-Hz	0-400 Amp	Age: 2 yrs. Good
14	Digital Tachometer	1 No.	Make: BOBTEK, Model: DT-2238A	2.5 to 9999 rpm	Age: 2 yrs. Good Condition.
15	Insulation Tester [Megger]	1 No.	Make: Nippen	1000V/2000 MOhm	Age: 2 yrs. Good Condition.

16	Earth Tester [Megger]	1 No.	Make: Nippen	0-10 ohms	Age: 2 yrs.
17	Flue Gas Analyser	1 No.	Make: Kane Int. Ltd., Model: Kane 900 Plus		Age: 1 yrs. Good Condition.
18	Earth clamp Tester	1 No.	KYORITSU,model-4200		Age: 1 yrs. Good Condition.
19	Hioki Battery Tester (3554)	1 No.			Age: 1 yrs. Good Condition.
20	EMF Field Tester	1 No.			Age: 1 yrs.
21	Surface DC Voltmeter	1 No.			Age: 1 yrs.
22	Digital Hygrometer	2No.			
23	Digital Power Analyser	1 No.	Model: MPR6005 Sr. No: 04269		
24	Ultrasonic Distance meter	1 No.	WATCO		
25	IR Thermometer	1 No.	Filuke		
26	Digital Precision Psychrometer	1 No.	extech		
27	Contact Type Thermo Meter	1 No.		Range 40 degree Celsius	
28	Manometer with Pitot Tube	1 No.	Model: EQ-8890A		
29	3 Phase (Single Clamp) Power Meter	3 No.	Kusam Meco 2745 Sr.No. 9994350 & 9994360		

I hereby state that information furnished above is true and correct to the best of my knowledge.

Place -
Date:...

Signature :

Name :

Designation :



South Asia

1. **Nam of Firm:** TUV SUD South Asia Pvt. Ltd.
2. **Name of Staff:** AJIT HABBU
3. **Date of Birth:** 10/04/1981
4. **Nationality:** INDIAN
5. **Education:**

Name of Course	University/Board	Institute	Year of Completion
Post Graduate Diploma in Steam Engineering	NA	Forbes Marshall Pvt. Ltd. Pune	2003
Master in Business Administration	ICFAI	Institute of Chartered Financial Analysts of India	Appeared
Bachelor of Engineering, degree in Mechanical Engineering	BAMU	MIT, Aurangabad	2002
Diploma in Mechanical Engineering	MSBTE	Govt. Polytechnic College Nanded	2009

6. **Membership of Professional Associations:** NA
7. **Training:** Technical Training related to Steam & Thermal Engineering
8. **Certification (if any):** Certified Energy Auditor **Certification No (if any):** EA7530
9. **Special Licence/authorisation:** NA
10. **Countries of Work Experience:** India, Philippines, UAE
11. **Work Experience with Central Government/State Government:**

- ✓ Hindustan Petrochemical Corporation Ltd. Vizag, Andhra Pradesh – Steam System mgmt.
- ✓ Chennai Petrochemical Corporation Ltd. Chennai Tamilnadu – Steam & Condensate System Assessment
- ✓ Adani Wilmar Ltd. Mundra Gujrat. – Energy Efficiency Project
- ✓ IFFCO Paradeep Orissa. – Energy Efficiency in steam & condensate system
- ✓ Reliance Ind. Ltd Jamnagar Gujrat. – Energy Efficiency in steam & condensate system
- ✓ Indian Oil Corporation Ltd. Mathura UP – Energy Efficiency in steam & condensate system
- ✓ Indian Oil Corporation Ltd. AOD Digboi Assam – Energy Efficiency in steam & condensate system
- ✓ RIL – Patalganga – Energy Efficiency in steam & condensate system
- ✓ Andhra Paper Mills Ltd. Rajahmundry AP – Energy Efficiency in steam & condensate system
- ✓ Deepak Fertilizers & PC Ltd. Mumbai – Energy Efficiency in steam & condensate system
- ✓ HPCL Mahul Mumbai – Energy Efficiency in steam & condensate system

12. **Sector Specific Experience:** Thermal Energy Audits, Steam & Condensate System Assessment in OPC sector.

13. **Languages:**

Language	Read	Write	Speak
English	Yes	Yes	Yes
Hindi	Yes	Yes	Yes
Marathi	Yes	Yes	Yes
Kannada	No	No	Yes

14. **Expertise:** Thermal Energy – Boilers, Steam & Condensate Systems etc.

15. **Employment Record:**

From: April 2009

To: Till Date



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Name of Employer: TUV SUD South Asia, Pune

Position Held: Regional Manager – Energy & Environment Services

Summary: • Energy efficiency studies at Power plants, co-generation plants, specific energy consumption, baseline establishment, and energy conservation measures etc.

- To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.
- Developing new products specific to steam intensive industries.
- Carrying out scoping studies, preparation of proposals, discussions, presentations etc. at the customer end.

From: Jan 2006

To: Aug 2009

Name of Employer: Forbes Marshall Pvt. Ltd. Pune

Position Held: Energy Auditor & Product Manager (2009)

Summary: Forbes Marshall is a group of companies having expertise in their relative field of Energy Conservation and Process efficiency along with Control Instrumentations. Having tied up with Spirax-Sarco UK, Forbes Marshall is providing solutions engineering to Steam System. Have got widest range of products and services packages (more than 1000) in the field and presence in overseas.

Key Responsibilities (Key Result Areas) & Accomplishments

- To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.
- Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.
- Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
- Working on marketing projects for 8 new service products in the Energy Industry Sector. Portfolio Management of Utilities being one of them.
- Business Potential study with branches and target settings for every month.
- Referencing various sites with good and notable achievements by publishing success stories and savings documents.
- Preparing various marketing tools for sales force as industry specific mailers, application notes, articles for magazines etc.
- Studying the potential for CDM (Clean Development Mechanism) projects for carbon benefits for the existing and up-coming Energy Conservation Projects. PDD preparation, complete CDM project approval procedures and cycle.
- Carrying out scoping studies, preparation of proposals, discussions, presentations etc. at the customer end.
- Receivables management with periodic follow-ups and communications.

From: Mar 2004

To: Sep 2005

Name of Employer: Ramsons Garments Finishing Equipments Pvt. Ltd. Bangalore

Position Held: Project Manager

Summary: Ramsons is providing energy and design solutions to Garment Industries. It manufactures export-oriented garments finishing equipments and machines as Industrial Washing m/c, Tumble Driers, Ironing systems, small capacity Boilers, Fabric Inspection machine etc. along with various service packages.

Key Responsibilities (Key Result Areas) & Accomplishments

- Installation, erection and commissioning of various machines like, Industrial Washing machines, Tumble drivers etc



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- Selection, sizing, Installation of small capacity boilers for garment industries.
- Energy Audit Projects and technical discussions with the customer for implementation assistance and assessment.
- Installation of Steam pipe lines, Water lines, air lines, gas Lines for the utilities required for the machines.
- Making Plant layout on Auto CAD, suggestions for expansion project
- Making detail BOQ's for the project material and arrangement of various resources like manpower etc.
- Design of steam pipelines and water lines, selection of valves, steam traps etc.
- Ducting installation with scrubbers and blowers for Driers etc.
- Documentation required for all above works.
- Receivable management invoicing and collections.

From: July 2003

To: Feb 2004

Name of Employer: S S Engineers Pvt. Ltd. Pune

Position Held: Design Engineer

Summary: S S Engineers undertake all Sugar and Chemical industry projects with Co-generation. Erection & Commissioning of Water tube Boilers, turbines, Steam line distribution and other utilities designs.

- Preparing drawings of various boiler parts on Auto CAD as per the details given
- Line sizing, P & I diagrams
- Exposure to design standards as IS, BS, ASTM, DIN, etc.
- Making BOQ's and other Documents
- Selection of various types of steam traps and Valves
- Use of Energy conservation techniques
- Visits to sites, making steam layout etc.

11. Detailed Tasks Assigned	12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
	<p>Name of assignment or project: HPCL Mahul Mumbai – Energy Efficiency in steam & condensate system</p> <p>Year: 2009</p> <p>Location: Mahul, Mumbai</p> <p>Client: HPCL</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none"> •Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines. •Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.



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	<p>Name of assignment or project: Deepak Fertilizers & PC Ltd. Mumbai – Energy Efficiency in steam & condensate system</p> <p>Year: 2007</p> <p>Location: Taloja, Mumbai</p> <p>Client: DFPCL</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: Andhra Paper Mills Ltd. Rajahmundry AP – Energy Efficiency in steam & condensate system</p> <p>Year: 2008</p> <p>Location: Rajahmundry AP</p> <p>Client: APML</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: RIL – Patalganga – Energy Efficiency in steam & condensate system</p> <p>Year: 2008</p> <p>Location: Patalganga, Mumbai</p> <p>Client: RIL</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p>



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	<p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: Indian Oil Corporation Ltd. AOD Digboi Assam – Energy Efficiency in steam & condensate system</p> <p>Year: 2008</p> <p>Location: Digboi, Assam</p> <p>Client: IOCL, AOD</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: Indian Oil Corporation Ltd. Mathura UP – Energy Efficiency in steam & condensate system</p> <p>Year: 2008</p> <p>Location: Mathura, UP</p> <p>Client: IOCL, Mathura</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.



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	<p>Name of assignment or project: Reliance Ind. Ltd Jamnagar Gujrat. – Energy Efficiency in steam & condensate system</p> <p>Year: 2008</p> <p>Location: Jamnagar, Gujarat</p> <p>Client: RIL</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: IFFCO Paradeep Orissa. – Energy Efficiency in steam & condensate system</p> <p>Year: 2007</p> <p>Location: Paradeep, Orissa</p> <p>Client: IFFCO</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: Adani Wilmar Ltd. Mundra Gujrat. – Energy Efficiency Project</p> <p>Year: 2007</p> <p>Location: Mundra, Gujarat</p> <p>Client: AWL</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p>



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	<p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: Chennai Petrochemical Corporation Ltd. Chennai Tamilnadu – Steam & Condensate System Assessment</p> <p>Year: 2006</p> <p>Location: Chennai, TN</p> <p>Client: CPCL</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.
	<p>Name of assignment or project: Hindustan Petrochemical Corporation Ltd. Vizag, Andhra Pradesh – Steam System mgmt.</p> <p>Year: 2006</p> <p>Location: Visakhapatnam, AP</p> <p>Client: HPCL</p> <p>Main Project Features: Steam & Condensate System Management at Refinery</p> <p>Positions held: Project Manager – Energy Efficiency</p> <p>Activities performed: Energy Efficiency assessment, savings potential identification, measurements, monitoring of proposed system, root cause analysis etc. To Conduct Energy Audits and Steam System Management Projects, preparation of Reports, Savings Documentations, Presentation, and Implementation action plans etc. as a part of Energy Projects.</p> <ul style="list-style-type: none">•Planning, scheduling, execution, presentation of the various services as per the diverse requirements and deadlines.•Team leader for the Oil and Petrochemical Industry group wherein major focus services include Steam System and Condensate Recovery Network Assessment Study at various OPC refineries across India as HPCL's, IOCI's, RIL etc.



South Asia

Declaration:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

A handwritten signature in blue ink, appearing to read 'A. K. K. K.', written over a horizontal line.

Signature of Candidate

Signature of authorised representative for the proposal



South Asia

Name of Assignment

1. **Nam of Firm:** TUV SUD South Asia Pvt. Ltd.

2. **Name of Staff:** B. DILLIBABU

3. **Date of Birth:** 01/12/1980

4. **Nationality:** INDIAN

5. **Education:**

Name of Course	University/Board	Institute	Year of Completion
B.E (EEE)	Madras University	Sri Ram Engg College	2003
PG Diploma in Energy Management & Conservation	-	Small Industries Service Institute (SISI), Guindy, Chennai.	2003

6. **Membership of Professional Associations:** NA

7. **Training:** NA

8. **Certification (if any):** Energy Auditor & LEED AP **Certification No (if any):** EA 5985

9. **Special Licence/ authorisation:** Nil

10. **Countries of Work Experience:** India

11. **Work Experience with Central Government/State Government:** Nil

12. **Sector Specific Experience:** Aluminium, Steel Re-rolling, Tea, Foundry, Rubber, Chemical, Pharmaceutical, Food, Building, Textiles, Automobile

13. **Languages:**

Language	Read	Write	Speak
English	YES	YES	YES
Hindi	NO	NO	YES
Tamil	YES	YES	YES
Telugu	NO	NO	YES

14. **Expertise:** Thermal & Electrical Energy Audit, Renewable such as Solar, Wind & Biomass Feasibility Studies, Green Building Consultancy

15. **Employment Record:**

From: Aug 2009	To: Till Date
Name of Employer: TUV SUD South Asia	
Position Held: Regional Manager	
Summary: Energy Audit, Business Development, Solar Consultant, Green Building Consultant	

From: Aug 2008	To: July 2009
Name of Employer: Conserve Consultants Pvt. Ltd	
Position Held: Manager	
Summary: Energy Audit, Commissioning, Green Building Facilitation, Business Development	

Name of Assignment



From: Aug 2006

To: July 2008

Name of Employer: Andhra Pradesh Productivity Council (APPC)

Position Held: Assistant Director.

Summary: Energy Audit, Energy Awareness Programme, Energy Conventions,

From: Aug 2003

To: July 2006

Name of Employer: Institute for Energy Studies (IES), Anna University

Position Held: Project Associate

Summary: Energy Audit, Biomass / Fuel Assessment Study, Solar Inspection, Integrated Rural Energy Planning, Feasibility Studies for Solar, Wind & Biomass.

11. Detailed Tasks Assigned	12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
	<p>Name of assignment or project: Energy Audit at Aluminium Cluster</p> <p>Year: 2003</p> <p>Location: Vyasarpadi Industrial Estate, Chennai</p> <p>Client: Small Industries Services Institute (SISI), Chennai</p> <p>Main Project Features: Efficiency of Heat Treatment Furnace assessment and melting efficiency.</p> <p>Positions held: Project Leader</p> <p>Activities performed: Detailed Thermal and Electrical Energy Audit</p>
	<p>Name of assignment or project: Energy Audit at Foundry</p> <p>Year: 2004</p> <p>Location: Thirvottriyur</p> <p>Client: KCP Industries</p> <p>Main Project Features: Electrical Arc & Induction Furnace</p> <p>Positions held: Project Leader</p> <p>Activities performed: Detailed Electrical Energy Audit</p>
	<p>Name of assignment or project: Energy Audit at Steel Re - rolling</p> <p>Year: 2005</p>

Name of Assignment



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	<p>Location: Madurandagam</p> <p>Client: Ispat India Pvt. Ltd</p> <p>Main Project Features: Heat Treatment Furnace Efficiency</p> <p>Positions held: Project Leader</p> <p>Activities performed: Detailed Thermal and Electrical Energy Audit</p>
	<p>Name of assignment or project: Energy Audit at Engineering Industry</p> <p>Year: 2006</p> <p>Location: Sholinghar</p> <p>Client: Turbo Energy Limited</p> <p>Main Project Features: Demand Side Management, optimizing the operational practice and motor efficiency</p> <p>Positions held: Project Leader</p> <p>Activities performed: Detailed Electrical Energy Audit</p>
	<p>Name of assignment or project: Energy Audit at Chemical Industry</p> <p>Year: 2008</p> <p>Location: Cuddalore</p> <p>Client: Tantech agro chemicals limited</p> <p>Main Project Features: Boiler Study, Compressor Audit</p> <p>Positions held: Project Leader</p> <p>Activities performed: Detailed Thermal and Electrical Energy Audit</p>
	<p>Name of assignment or project: Energy Audit at Rubber Industry</p> <p>Year: 2010</p> <p>Location: Hyderabad</p> <p>Client: Pelican Rubber Ltd</p> <p>Main Project Features: Boiler, Steam, Compressor & motor audit</p> <p>Positions held: Project Leader</p> <p>Activities performed: Detailed Thermal and Electrical Energy Audit</p>
	<p>Name of assignment or project: Energy Audit at Workshops</p> <p>Year: 2011</p> <p>Location: Chennai & Bangalore</p> <p>Client: Maruti Main Service Center & Workshop</p>

Name of Assignment



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	<p>Main Project Features: Compressor Audit</p> <p>Positions held: Project Leader</p> <p>Activities performed: Detailed Electrical Energy Audit</p>
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South Asia

Name of Assignment

Declaration:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

A handwritten signature in blue ink is written over a purple circular stamp. The stamp contains the text 'TUV SUC' in the center, with 'TUV' above 'SUC'. The outer ring of the stamp contains the text 'TUV SUC' at the top and 'SOUTH ASIA' at the bottom.

Signature of Candidate

Signature of authorised representative for the proposal



South Asia

Name of Assignment

1. **Nam of Firm:** TUV SUD South Asia Pvt. Ltd.
2. **Name of Staff:** HIRENKUMAR D SARDHARA
3. **Date of Birth:** 04/09/1983
4. **Nationality:** INDIAN
5. **Education:**

Name of Course	University/Board	Institute	Year of Completion
Bachelor of Engineering - Mechanical	Sardar Patel University	G.H.Patel College of Engineering & Technology	2007

6. **Membership of Professional Associations:** None
7. **Training:**
 1. Energy Efficiency in Thermal Power Plant by SIRI Energy, Hyderabad.
 2. Steam Engineering & Condensate Recovery by Thermax Limited, Pune
8. **Certification (if any):**BEE Certified Energy Auditor **Certification No (if any):** EA-12146
9. **Special Licence/authorisation:** None
10. **Countries of Work Experience:** India Only
11. **Work Experience with Central Government/State Government:**
 1. Agriculture Demand Side Management Project by BEE, Ministry of Power
 2. Perform, Achieve & Trade Scheme by BEE, Ministry of Power
12. **Sector Specific Experience:**

Thermal & Electrical Energy Audit in Co-generation, Thermal Power Plant, Chemical, Cement, Pharmaceutical, Petroleum, Commercial Complex, Hotel, Hospital, Food, Distilleries, Ceramic, Textile, Paper & Pulp, Etc.

13. **Languages:**

Language	Read	Write	Speak
English	YES	YES	YES
Hindi	YES	YES	YES
Gujarati	YES	YES	YES

14. **Expertise:** Thermal & Electrical Audits, Steam & Condensate Recovery Audit.



South Asia

Name of Assignment

15. Employment Record:

From: June 2012	To: Till Date
Name of Employer: TUV SUD South Asia Pvt. Ltd.	
Position Held: Sr. Energy Auditor	
Summary: To Conduct Thermal & Electrical Energy Audit	
From: April 2010	To: June 2012
Name of Employer: Thermax Limited, Pune	
Position Held: Executive – Energy Audit	
Summary: To Conduct Thermal, Electrical and Steam & Condensate Recovery Audits	
From: April 2009	To: March 2010
Name of Employer: MICON Consultancy Services Ltd., Pune	
Position Held: Project Consultant	
Summary: To Conduct Thermal and Electrical Audits	
From: May 2007	To: March 2009
Name of Employer: Academy for Conservation of Energy, Vadodara	
Position Held: Assistant Energy Auditor	
Summary: To Conduct Thermal and Electrical Energy Audits	

11.	Detail	12. Work Undertaken that
<p>To Conduct Site-Visits, Observation & Measurements of Agriculture Pumps, Survey of Cropping Pattern, Preparation of the Detailed Project Report including recommendation on energy efficient pumps and financial model for implementation on the same through ESCo</p>	<p>Name of assignment or project: Agriculture Demand Side Management</p> <p>Year: 2009-10</p> <p>Location: Gujarat</p> <p>Client: Bureau of Energy Efficiency</p> <p>Main Project Features: Performance Assessment</p>	



	<p>of Agriculture Pumps</p> <p>Positions held: Team Leader</p> <p>Activities performed: To Conduct Site-Visits, Observation & Measurements of Agriculture Pumps, Survey of Cropping Pattern, Preparation of the Detailed Project Report including recommendation on energy efficient pumps and financial model for implementation on the same through ESCo</p>
<p>To conduct baseline energy audit of Designated Consumers in Textile and Paper & Pulp Sector, Preparation of the Report and Submission of the report in pre-defined format</p>	<p>Name of assignment or project: Perform Achieve & Trade</p> <p>Year: 2011-12</p> <p>Location: Punajb & Uttarakhand</p> <p>Client: Energy Efficiency Services Limited</p> <p>Main Project Features: To Conduct Baseline Energy Audit</p> <p>Positions held: Team Member</p> <p>Activities performed: To conduct baseline energy audit of Designated Consumers in Textile and Paper & Pulp Sector, Preparation of the Report and Submission of the report in pre-defined</p>



South Asia

Name of Assignment

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Declaration:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

A handwritten signature in blue ink, appearing to read 'Ajama's'.

Signature of Candidate

Signature of authorised representative for the proposal



South Asia

Name of Assignment

1. **Nam of Firm:** TUV SUD South Asia Pvt. Ltd.

2. **Name of Staff:** SALIM MIRZA

3. **Date of Birth:** 25/04/1982

4. **Nationality:** INDIAN

5. **Education:**

Name of Course	University/Board	Institute	Year of Completion
B TECH MECHANICAL	UPTEC, LUCKNOW	KNIT, SULTANPUR	2006
DIPLOMA IN MECHANICAL	ALIGARH UNIVERSITY	AMU,ALIGARH	2003

6. **Membership of Professional Associations:**

7. **Training:**

8. **Certification (if any):** BEE CERTIFIED **Certification No (if any):** EA - 11452

9. **Special Licence/authorisation:**

10. **Countries of Work Experience:** CONDUCTED THERMAL AUDITS IN EGYPT, SRI LANKA, BANGLADESH AND NEPAL FOR PROCESS INDUSTRIES SUCH AS TEXTILES, TOBACCO, CARBON BLACK ETC.

11. **Work Experience with Central Government/State Government:**

12. **Sector Specific Experience:** THERMAL AUDITS, STEAM & CONDENSATE SYSTEM, UTILITY DESIGN ENGINEERING, IMPROVING SPECIFIC FUEL AND STEAM CONSUMPTION FOR VARIOUS PROCESS INDUSTRIES SUCH AS PAPER,TEXTILES,SOLVENT EXTRACTION, EDIBLE OIL REFINERY,CHEMICAL,FOOD, STEEL ETC.

13. **Languages:**

Language	Read	Write	Speak
English	YES	YES	YES
Hindi	YES	YES	YES
Other			

14. **Expertise:** PROCESS SPECIFIC THERMAL AUDITS – BENCHMARKING SPECIFIC FUEL AND SPECIFIC STEAM CONSUMPTION

15. **Employment Record:**



South Asia

Name of Assignment

From: APRIL 2007 **To: NOVEMBER 2011**
Name of Employer: FORBES MARSHALL PVT LTD
Position Held: ENERGY AUDITOR
Summary: CONDUCTING PROCESS SPECIFIC THERMAL AUDITS, UTILITY DESIGN ENGINEERING, BENCHMARKING OF SPECIFIC STEAM AND FUEL CONSUMPTION, STEAM SYSTEM MANAGEMENT

From: DECEMBER 2011 **To: JULY 2012**
Name of Employer: CII AVANTHA CENTRE, CHANDIGARH
Position Held: COUNSELLOR - ENERGY
Summary: THERMAL AND ELECTRICAL AUDITS, CONDUCTING TRAINING PROGRAMS

11. Detailed Tasks Assigned <i>(Please</i>	12. Work Undertaken that Best Illustrates Capabi
<p>Individually handling detailed thermal audit assignments since starting of my career in Forbes Marshall. Successfully conducted more than 80 energy audits in individual capacity. Scope of work included collection of data at site, preparation of reports, presentation of energy audit findings and acceptance from the plant team. Development of implementation plan with prioritising of proposals and financial investment required. Also been associated with providing implementation support, tracking benefits and sustaining of projected savings in savings performance contract.</p>	<p>Name of assignment or project: Thermal energy audit and steam turbine performance study with respect to steam loading and mass balance Year: July 2007 Location: Pune Client: Alkyl Amines Main Project Features: Detailed steam and condensate system audit, steam turbine performance study w.r.t to steam loading pattern, mismatch between steam and electrical demand, eliminate problem of steam venting Positions held: Lead Auditor Activities performed: Site work for data collection, analysis, preparation of audit report with various options for improving system efficiency.</p>



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Name of Assignment

<p>In CII most of the audits conducted in form of a team. My scope of work was to conduct the thermal part of the audit and also focussing on electrical audits. In addition to the above the focus was to provide to sector specific knowledge to the team both in terms of utility, process and product knowledge of various accessories used in steam and condensate system.</p>	<p>Name of assignment or project: Cluster audit of textile mills in Pali</p> <p>Year: January 2008</p> <p>Location: Pali, Rajasthan</p> <p>Client: 9 textile mills in Pali area</p> <p>Main Project Features: Steam and condensate system audit, thermic fluid system audit</p> <p>Positions held: Lead Auditor</p> <p>Activities performed: Collection of data at site, preparation of reports, comparison of process parameters, preparation of implementation plan and prioritizing.</p>
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Declaration:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of Candidate *(Attached Digital Signature)*

Signature of authorised representative for the proposal *(do not remove, it will be added later)*



South Asia

Name of Assignment

- 1. Nam of Firm:** TUV SUD South Asia Pvt. Ltd.
- 2. Name of Staff:** VIVEK UTPAL
- 3. Date of Birth:** 15/12/1980
- 4. Nationality:** Indian
- 5. Education:** Bachelor of Technology in Electrical Engineering

Name of Course	University/Board	Institute	Year of Completion
B.Tech-Electrical Engineering	National Institute of Tehnology, Hamirpur, H.P.	National Institute of Technology, Hamirpur, H.P.	2006
Intermediate of Science	B.I.E.C., Patna, Bihar	D.B.M.I. College, Mansurchak, Begusarai Bihar.	1997
Marticulation	B.S.E.B, Patna, Bihar	N.N.S.H.School, Mansurchak, Begusarai, Bihar.	1995

6. Membership of Professional Associations:

7. Training:

8. Certification (if any):BEE Certified Energy Auditor **Certification No (if any):** 6379

9. Special Licence/authorisation:

10. Countries of Work Experience: India

11. Work Experience with Central Government/State Government: NIL

12. Sector Specific Experience: Steel, & Steel rolling, Electrical & Thermal Utilities,

13. Languages:

Language	Read	Write	Speak
English	YES	YES	YES
Hindi	YES	YES	YES
Other			

14. Expertise: Electrical & Thermal Utilities, Electrical & Mechanical Maintenance.

15. Employment Record: (specify all experience since starting in chronological order)

From: 10th July 2006 **To:** 2nd May 2011

Name of Employer: Tube Investments of India Ltd. (Murugappa Group)

Position Held: GET, Dy. Manager, Manager.

Name of Assignment



South Asia

Summary: Maintenance, Projects, Energy Conservation, Liaisoning with Govt. Agencies.

From: 10th May 2011**To:** 24th March 2012

Name of Employer: ARC Engineers & Contractors, Pune, Maharashtra.

Position Held: Manager - Electrical & Energy

Summary: Electrical Energy Audits, Projects Planning & Execution

From: 26th March 2012**To:** 16th July 2012

Name of Employer: ABS Consulting, Mumbai, Maharashtra.

Position Held: Sr. Engineer Energy Audit

Summary: Energy Audit, Liaisoning with Energy Development Agency, Third Party Inspection.

11.	Detail	12. Work Undertaken that
		<p>Name of assignment or project: Improvement of Power Quality & maintainance of Power Factor.</p> <p>Year: 2008</p> <p>Location: Pune</p> <p>Client: Tube Investments of India Ltd. (In House Project)</p> <p>Main Project Features: Harmonic Analysis, Replacement of Capacitor Bank & commissioning of Harmonic Filter</p> <p>Positions held: Dy. Manager</p>

	<p>Activities performed: Harmonic Analysis, Design of Harmonic Filter, preparation of CEP, Vendor development, Installation & Commissioning.</p>
	<p>Name of assignment or project: Maintaining Maximum Demand of Electricity Year: 2009 Location: Pune Client: Tube Investments of India Ltd. (In House Project) Main Project Features: Automatic Maximum Demand Controller Positions held: Dy. Manager Activities performed: Design & development of PLC based Automatic maximum Demand Controller, Installation & Commissioning of Demand Controller.</p>

Declaration:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of Candidate

Vivek Ujjwal

Name of Assignment



South Asia

Signature of authorised representative for the proposal