

ELECTRICAL INSPECTOR PAKISTAN (Pvt) Ltd



PROFILE & PROJECTS



503, AL Ameera Center, Near Passport Office
Saddar, Karachi, Sindh, Pakistan.
Ph: +92-21-35661100, Cell: +92-300-8228223
info@ei.com.pk , www.ei.com.pk

Introduction of our Company.

We M/s. Electrical Inspector Pakistan (Pvt) Ltd (www.ei.com.pk) is a Nationwide Leading TPI company registered (No. 0073632/5785 Dated 10-12-2010) with Government of Pakistan SECP (Security Exchange Commission of Pakistan), we are Third Party Inspector & Auditing Firm and in pursuance of aims under **Article-II & III of Memorandum of the Firm registered under Companies Ordinance-1984** doing Inspection, Testing, Assessment, Arbitration for electrical safety and energy savings. We perform and confirm the facility underwent through comprehensive electrical safety audit to assess its vulnerability in terms of system gaps in the electrical network and the implemented electrical protection system. Our Team of experts comprises as follow alongwith necessary tools meters.

S.No.	Name	Qualification	Position
1.	Engr. Wali Rahimoon	BE (Electrical)	Executive Director
2.	Engr. Tariq Ali	BE (Agriculture), MBA	Director (Pre-Shipment Audit)
3.	Mr. Aamir Iqbal Rajput	BA (Economics), EnMS	Manager (Customer Care)
4.	Engr. Shamsuddin Uttero	BE (Electrical)	Project Manager
5.	Engr. Muhammad Usama	BE (Electrical)	Team Leader Inspections
6.	Engr. Muhammad Asif	BE (Electrical)	Electrical Inspector & Auditor
7.	Miss Shazia Khan	MBA, IMS, QMS, EMS	Environment Lead Auditor
8.	Miss Rabia Taki Khan	BS (Petroleum)	Oil & Gas Auditor
9.	Syed Ahtesham Ahmed	BSc, EnMS	Thermographer

Team of safety experts from Electrical Inspector Pakistan visits organizations and prepare reports in details the observation and the findings along with insight view of gaps. Our report presents opportunity to the Auditee/organization to fill up the gaps and minimize the severity of risks as depicted in this report.



Projects Completed by our Company.

1. M/s K-Electric Karachi, 560 MW, 220-MW, 96-MW Site, 96-MW KIA.
2. M/s Engro Chemical & Polymer, Karachi.
3. M/s AL Karam Textile (Pvt) Ltd Karachi.
4. M/s Akhtar Textile (Pvt) Ltd Karachi
5. M/s Morgan Kirloskar Pvt Ltd, Karachi.
6. M/s NBP National Bank of Pakistan, Khi. Lhr, Isl
7. M/s PTCL Pakistan Telecommunication Company Ltd, Khi, Lhr, Isl
8. M/s Eastern Garments, (Pvt) Ltd. Karachi.
9. M/s Shapes Health Studio (Pvt) Ltd. Karachi.
10. M/s SINOHYDRO Chinese, 1320-MW at Port Qasim Karachi.
11. M/s TUV-Austria (Pvt) Ltd. Karachi.
12. URS-Inspections (Pvt) Ltd. Karachi.
13. Cineplex (Pvt) Ltd, Karachi.
14. Evershine Constructors Via EA Consulting (Pvt) Ltd

Criteria of Inspection Testing with Applicable Law & Standards

The following regulations have been used as reference for this audit.



- Local Electricity Act-1910
- Local Electricity Rules-1937
- Local Electricity Duty Rules-1964
- Local Standard PS-3632 PSQCA Act-1996
- British Standards BS-7671:2008
- NFPA National Fire Protection Association (USA).
- IEC International Electro technical Commission (USA)
- ASTM American Society Testing Material (USA)
- ANSI American National Standard Institute (USA)

- **IAEI International Association Electrical Inspectors (USA)**

Inspection, Testing and Audit Plan and Audit Activities.

The detailed audit plan along with audit activities adopted is as given below:

Day	Activity	Intended Purpose
1 st Day	Opening Meeting with representatives of Management.	To propagate objective of the audit, Discuss detail schedule of the audit, Seek desired co-operation from different sections/departments.
2 nd Day	Documents Review	Main purpose is to review the availability of relevant documentation, approvals, Test Reports & Fitness Certificates subsequently it's their authentication.
3 rd Day	Walk through visual Inspection & Audit.	Main purpose of walk through audit of Electrical distribution network and gather evidences.
4 th -5 th Day	Detail Audit of LT, MP & HT Panel Rooms	To conduct detail audit of LT, MP & HT Panel Rooms as per the agreed scope of work & ascertain compliance level)
6 th -7 th -8 th Day	Measurements Tests i.e Earth, Megger, Lux, Cable Locations with Currents, Protection Relay & Thermography.	Measurements, Testing by relevant Testing Equipments, Protection Relay Testing, Cable Locations, subsequently collection of record.
9 th Day	Preparation Audit and Inspection Report	Writing Audit and Inspection Report and Classification of NCRs
10 th Day	Closing Meeting	To discuss the outcome of the audit report with Management Representatives subsequently corrective actions on observed Non-Compliances.

Documents Review during Inspection, Audit & Testing.

The relevant documents are to be reviewed / checked during the audit and they were also examined for their authenticity, their validity, their updates and their actual usage. A summary on outcome of document verification is being reproduced as below:

S. No.	Document	Availability / Status
a)	SLD (Single Line Diagram) found available on record also approved by the authority, (BS-514.9), NFPA/70E-205.2	OK
b)	Fitness Certificate of Transformer found available on record, Rule-62.	Major
c)	Fitness Certificates of Gas Generator found available on record. (Section-28, Section-30 & Rule-62).	OK
d)	Fitness Certificates of DG-Set Generators found available on record. (Section-28, Section-30 & Rule-62).	Major
e)	Fitness Certificate of connected load of Power & Light (800+200=1000KW) found available on record, (Rule-48).	Major
f)	Government Licensed Test Report of the connected Load of Power & Light is found available, (Rule-40).	OK
g)	List of Electrical Staff is provided also competency certificates verified, Rule-3 (NFPA/70E-205.1)	OK
h)	Copies of Paid Electricity Bills of supply company for the last 12-	Minor

	Months.	
i)	Copies of Paid Government Treasury Challans of electricity duty on private generators for the last 12-Months payable under Provincial Finance Act.	Medium

Visual Inspection & Evidences.

The visual inspection usually carried out for physical check and judgment of maintenance trend of the organization. The main purpose of visual survey is to collect and gather the evidences for audit and assessment to evaluate the ignorance alertness behavior of the maintenance staff.

Insulation Resistance, Megger Testing Survey on Off Load.

Insulation Testing Survey as required under Rule-63 of the Local Electricity Rules-1937 is conducted on Shutdown and Off Load. The megger testing is to be carried-out on four different locations i.e on Load Side, DB's Side, LT Panel Side & finally on HT Side of the Transformer, and subsequently the measurement records are given below;

Location	Phase Location	Value	
Incoming Load Cables Coming from DB's	Red Phase & Sheath	40 MΩ	
	Yellow Phase & Sheath	40 MΩ	
	Blue Phase & Sheath	35 MΩ	
	Neutral & Sheath	45 MΩ	

Looking to the Pakistan Standards of PSQCA and Electricity Rules 1937, it can be observed from the above table readings that independent cables insulations are within the recommended limits and satisfactory. It is also revealed from good results that the cables are new and of a good quality.

Testing of Earthing System & Lightning Arrester Survey.

Earthing system survey has to be conducted as a part of electrical safety audit. The earthing tests are measured from component to earth source and than from earth source to earth pits. The earth resistance measurements are taken on both the earthing systems and the readings are in the table below.

Location	Earth Pit No.	Result in Ohms	Remarks
Main LT Panel	EP-1	32	Not Satisfactory
Transformer HT Side	EP-2	08	Not Satisfactory
Transformer LT Side	EP-3	6.5	Not Satisfactory
Generator Side	EP-4	3.5	Not Satisfactory
DB Junction-5	EP-5	1.5	OK
DB Junction-6	EP-6	0.5	OK
DB Junction-7	EP-7	0.8	OK
DB Junction-8	EP-8	3.5	Not Satisfactory
DB Junction-9	EP-9	0.9	OK
DB Junction-10	EP-10	0.8	OK

It can be seen from the above table that all earth resistance are not satisfactory, some of above are within the recommended limits, hence need to be improved. Further there is no permanent name plates are

provided to any of the earthing pit.

Cable Load Capacity, Leakage & DB Schedule on Full Load.

Current studies used to be carried out on full load for cables, circuit breakers and Leakage Current Survey is also conducted during the audit and the measurement records are given below in DB's schedules survey, which are less than 1/5000 part of total current passing permissible under Rule-26 of the Local Electricity Rules, Hence leakage current measured at DBs boxes and LT Panels & Earth pits is within the recommended limits and satisfactory. Cable current load survey has been conducted during the audit in order to ensure the optimum loading of electrical cables. During measurement of cable loading it was seen that all the cables loading are within the recommended limit and found satisfactory. Further a few circuit breakers found overloaded and heat up as in classification of NCR's.

DB REFERENCE / NAME				DB LIGHT AND FAN						
LOCATION				ELECTRIC WORK SHOP						
FEED FROM				MDB CUTTING DEPART						
INCOMING SIZE CABLE				16mm 4CORE						
INCOMING ACB				63A TP						
INCOMING SUPPLY VOLTAGE(V)		3 ϕ (400-415)		R-Y:				MEASURED LOAD CURRENT (A)		
				Y-B:				I _R	2	
				R-B:				I _Y	3	
INCOMING SUPPLY VOLTAGE(V)		P-N(220- 240)		R-N:				I _B	2	
				Y-N:				I _N		
				B-N:						
SR#	ESTIMATED LOAD IN KW			CB RATING	MEASURED CURRENT (A)	SIZE OF WIRE	PHASE	DESCRIPTION OF THE EQUIPMENT	REMARKS	
	R	Y	B							
1				32A TP	SPARE			SPARE		
2				20A SP	OK	2.5mm		WASHROOM LIGHT		
3				20A SP	OK	2.5mm		BOUNDRY LIGHT		
4				32A SP	OK	2.5mm		L / F & EMER LIGHT		
5				16A SP	SPARE			SPARE		
6				20A SP	SPARE			SPARE		
7				20A SP	SPARE			SPARE		
9								Leakage Current; 0.005 A	OK	

Inspection of Light Intensity by Lux Test.

The light intensity test by Lux meter is carried out, the results are tabled below which shows some NCR's in Major and Medium risk colors. It is therefore advised that corrective actions may be taken as early as possible.

S #	Location	Result in Lux	Recommended Lux
1.	HT Switchgear Room	155	200-400
2.	Transformer Room	330	200-400
3.	LT Main Panel Room	220	200-400
4.	Generator Room	200	200-400
5.	Generator Control Room	610	500-700
6.	Cutting Department	400	400-700
7.	Value Added Finishing	435	400-700
8.	Production Office	450	400-600
9.	Stitching Department	620	500-1000
10.	Production Line	625	500-700
11.	Inspection work	825	800-1000
12.	Canteen	480	400-500

Inspection by Infrared Thermography Imaging Survey.

Thermography survey is to be conducted at the organization with the help of Infrared Thermal Camera (**FLIR USA Exclusive Model E8, Image Quality is 320x240=76800 Pixels, sensitivity 0.06-250°C**). This model is a professional tool top of the line of Executive Series of E4, E5, E6 & E8. This tool captures thermal images as well as digital images instantly at the same time simultaneously i.e picture in picture. Thermography is an advance technique for the preventive maintenance as it will determine the hot spot generated in the electrical system due to loose cable connection, overloading of the cable and CB's, insulation damage etc. Apart from identifying the heating zone within the electrical system this survey also shows exposed cables, looping connections, ignorance of terminal lugs, improper tapping of joints, cable twisting and cable color coding etc via digital image picture in picture of thermal image.

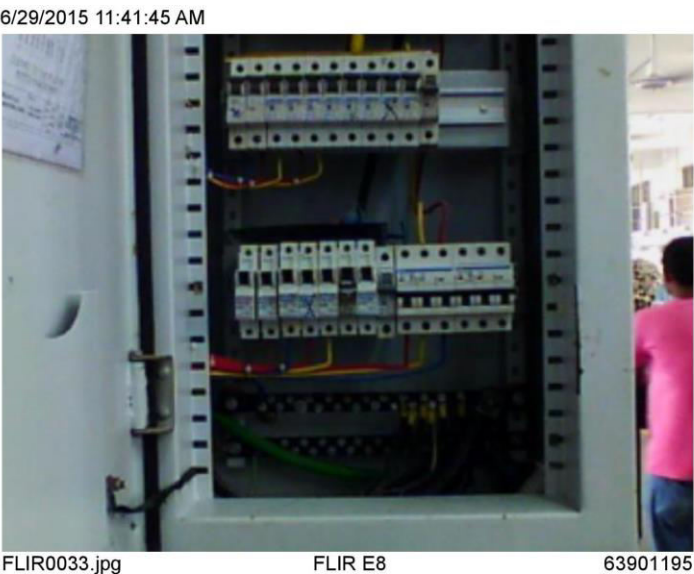
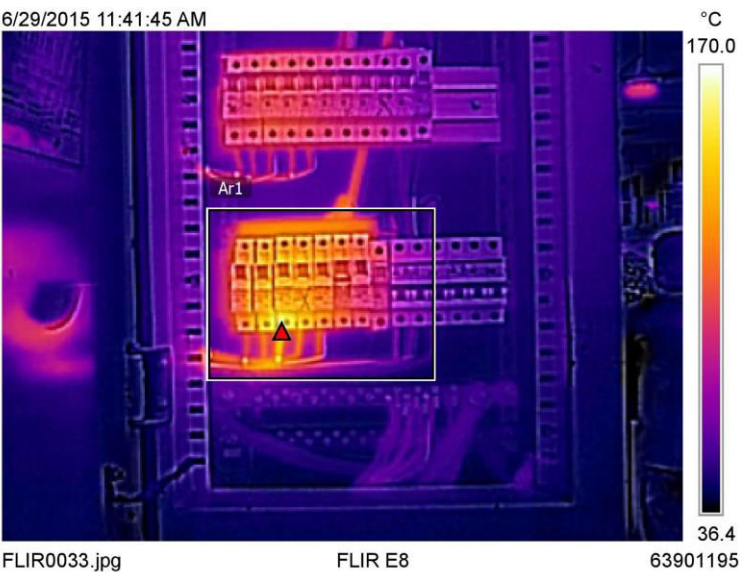
Measurements			°C
Ar1	Max	165.8	

Parameters		
Emissivity	0.95	
Refl. temp.	20 °C	

D.B 15 First Floor Stiching Depart

Temp :Very High

Risk : VERY High Risk



Measurements			°C
Ar1	Max	101.7	

Parameters	
Emissivity	0.95
Refl. temp.	20 °C

D.B 04, First floor stitching dept

Temp : HIGH

Risk : HIGH

6/29/2015 11:28:46 AM

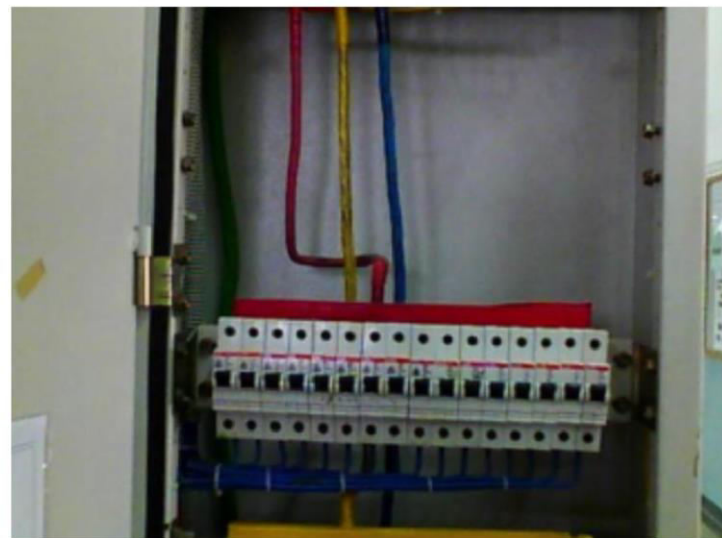


FLIR0018.jpg

FLIR E8

63901195

6/29/2015 11:28:46 AM



FLIR0018.jpg

FLIR E8

63901195

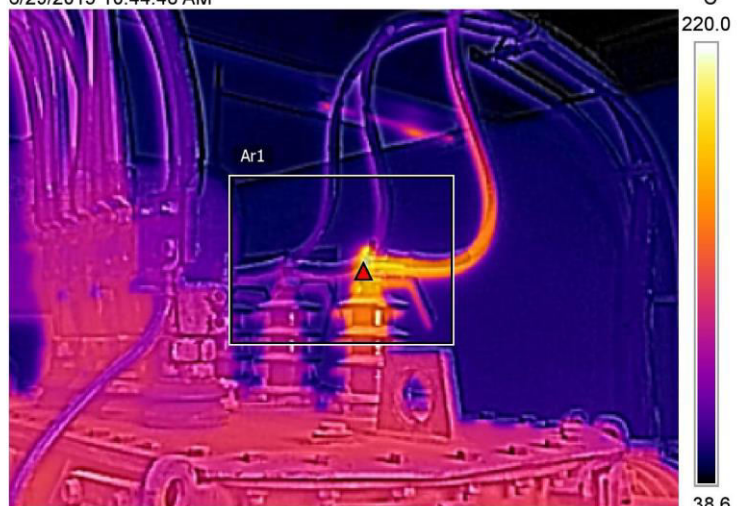
Measurements			°C
Ar1	Max	212.7	
Parameters			
Emissivity		0.95	
Refl. temp.		20 °C	

Transformer Room

Temp : Very HIGH

Risk : very HIGH

6/29/2015 10:44:48 AM



FLIR0003.jpg

FLIR E8

63901195

6/29/2015 10:44:48 AM



FLIR0003.jpg

FLIR E8

63901195

CLASSIFICATION OF COMPLIANCES & NC

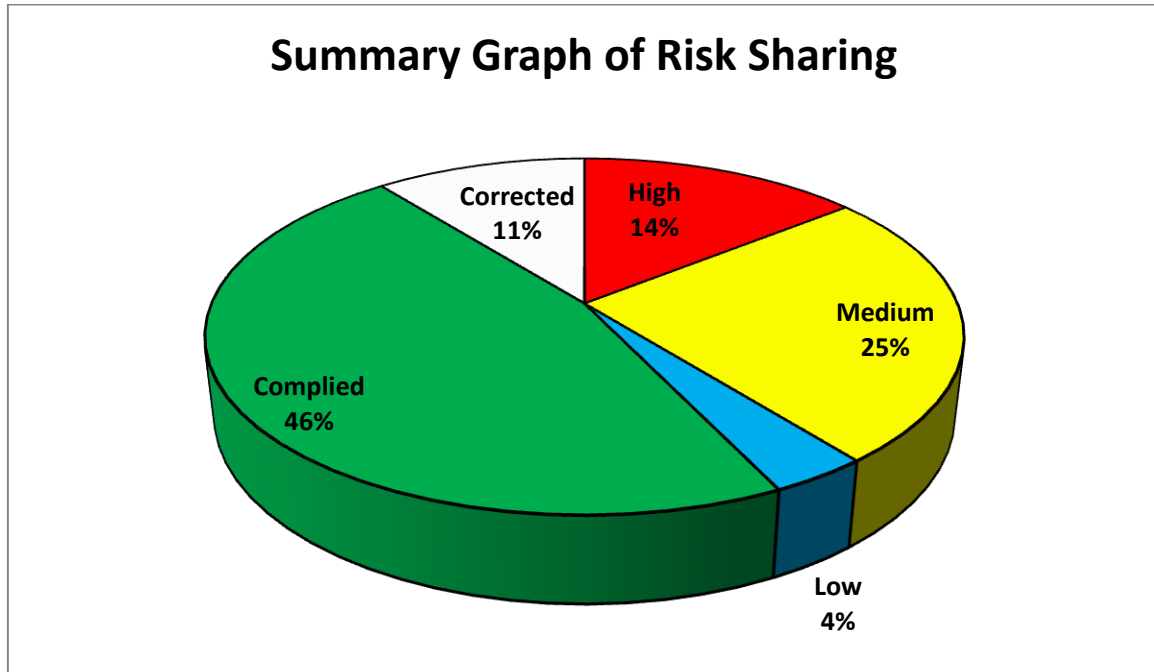
The observations made during electrical safety audit are divided into four categories based on the severity of the risks in the electrical safety point of view as High RED, Medium YELLOW and Low BLUE; whereas fourth GREEN Color category is included for good works means complied with standards finally fifth WHITE color category is created if CAR (Corrective Action Report) is received from the organization during writing a report as in the following table.

S No.	Discrepancies	Color Code For Risk
1.	SLD (Single Line Diagram) found available on record also not approved by the authority, (BS-514.9), NFPA/70E-205.2	Major
2.	Fitness Certificate of Transformers not found available on record, Rule-62.	Major
3.	Fitness Certificate of Auxiliary load of Power & Light not found available on record, (Rule-48).	Major
4.	Government Licensed Test Report of the total installation is not found available on record, (Rule-40).	Major
5.	Copies of Paid Sindh Government Treasury Challans of Inspection Fees not found on record payable under Provincial Finance Act.	Major
6.	Visual Walkthrough Inspection & Evidences	Medium
7.	MV Panels Including Protection Relay Testing	Complied OK
8.	RMU Including Protection Relay Testing	Complied OK
9.	Transformer IR Testing	Complied OK
10.	Cable IR Testing	Complied OK
11.	LBS Load Break Switch & DB's Testing	Complied OK
12.	Contact Resistance Testing	Complied OK
13.	Earth Pit Testing	Complied OK
14.	Hi-Pot Testing of Bus Bar	Complied OK
15.	Practice of safety program procedure, Training and coordination with each other and with auditors not found appropriate need some improvements	Minor
16.	Some Non-Compliances found in SS-II of RMU-26, Earth Result SS-I was found poor which was also corrected and improved on spot.	Corrected

Summary of Inspection Report with Graph %age of NC's & Risks.

The percentage share of all above categories against the total numbers of observation is also demonstrated in the graphic chart below. This will help management to understand the existing level of electrical safety maintained at the organization and also to take the necessary targeted action towards improvement of electrical safety.

Grading of Risk (Overall)	No. of Observation (Overall)	% Share of Overall
High	04	14 %
Medium	07	25 %
Low	01	04 %
Complied	13	46 %
Corrected	03	11%
Total	28	100%



As above based on Summary Graph, there is RED color percentage falls in high risk NC (Non-Compliance), YELLOW color percentage is in the medium risk and whereas BLUE color percentage falls under low risk category, where as GREEN color indicates good works complied with standards respectively. Finally WHITE color category is created if CAR (Corrective Action Report) is received from the organization during writing a report. The observation falls in High risk categories requires immediate action towards corrective action and preventive system so that electrical safety is prioritized and maintained, subsequently other color percentages should be treated accordingly.

Solar System TPI Validation

Audit Assessment for Solar System installed at five locations at NBP is carried out to identify system strength based on:

- Specification & Dimensioning
- Installation
- Performance Measurement
- Warranties & Services

Audit was performed for five systems installed at:

- Main Branch NBP Nawabshah installed by M/s Solar Grid
- GT Road NBP Rawat Branch installed by M/s RERC
- North Karachi NBP Karachi installed by M/s RENU
- Main Branch NBP Thatta installed by M/s Saztel
- Main Boulevard Gulberb NBP Lahore installed by M/s Buksh Energy

Energy Efficiency Assessment of Heavy Duty Refrigeration Compressors.

A detailed Energy Efficiency Audit has been conducted at the organization's premises. The core activities performed during the audit, as outlined in the scope of work are as given below:

- Assessment of compressors on energy saving.
- Evaluation of compressors and comparison its energy consumption with local compressors which are installed alongwith the compressor.
- Monitoring of Ampere reading of each compressor on hourly intervals.
- Report will clearly mention the number of units (KWH) each compressor took (on hourly basis of course).
- Monitoring and notifying following data.

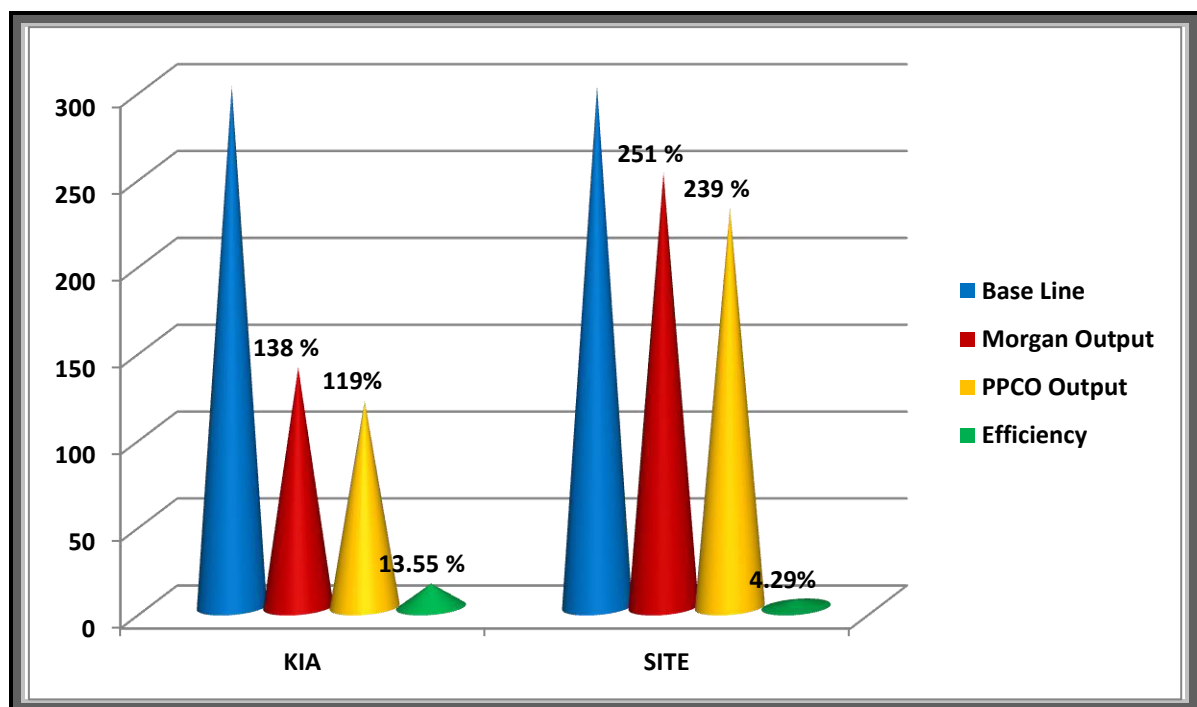


Comparison of Morgan's Kirloskar Compressors and PPCO's Local Compressors				
Compressor Name	Morgan's Kirloskar KIA	PPCO's Local KIA	Morgan's Kirloskar SITE	PPCO's Local SITE
Model No.	KC6/KCX6	P.P.CO	KC6/KCX6	P.P.CO
Refrigerants Used	Ammonia	Ammonia	Ammonia	Ammonia
Tank	600	500	600	600
IL Line Current A	182	129	84.93	76.06
VLL Line Voltage V	395.3	395.3	399.5	399.5
PF Power Factor	0.99	0.99	0.99	0.99
Root-3 Constant	1.732	1.732	1.732	1.732
Real Power KW	123.36	87.44	58.18	52.10

Horse Power HP	165.36	117.21	77.99	69.84
Energy KWh in 24 Hr	2960.69	2098.51	1396.28	1250.45
Pe Kw at 35'C	117.1	Specs N/A	117.1	Specs N/A
Pe Kw at 40'C	125.8	Specs N/A	125.8	Specs N/A
Speed rpm	850	425	600	430
Blocks/24 Hr	408	250	350	300
Kwh/Block	7.26	8.39	3.99	4.17
Block/Kwh	0.13781	0.11913	0.25067	0.23991
Efficiency by Kwh/Block	13.55	%	4.29	%

Summary efficiency Audit Report with Graph % age comparison.

The percentage share of all determined by above calculations comparing efficiency of both compressors installed at two different locations i.e KIA & SITE Area, it is seen that Compressor is 13.55 % & 4.29 % more efficient than PPCO's Local Compressor respectively. The observations calculated above are also demonstrated in the graphic chart below. This will help management to understand the existing level energy consumed by both compressors. Hence the organization, if desired, can take the necessary targeted action towards improvement of energy efficiency and conservation accordingly.



Graph Chart Showing Efficiency Comparison of Both Compressors.

As above based on Summary Graph, there is **BLUE** color is a base line percentage, **RED** color is the output value line for Morgan' Kirloskar Compressors in Blocks/KWh, similarly **YELLOW** color is the output value line for PPCO' Local Compressors in Blocks/KWh, whereas **GREEN** color indicates the efficiency deference of compressors over PPCO's Local compressors. The difference of efficiency in both locations is due to many abnormal factors like supply interruption, variation in voltages, quality of motors, drums, water, salt, competency of operators, ON/OFF intervals, ignorance of ice hardness etc.

Conclusion

In the last but not the least, it that we are working in the this field since 1995, Practicing Electricity Act 1910, Electricity Rules 1937, NEPRA Laws 1997, British Standard BS-7671 and Pakistan Standards PS-3632, NFPA-70E (USA) & IEC (USA). Electrical Inspections, Testing and Audit should be done after every year to renew its validity subject to the surveillance inspection every year. Our any report is intended to help the organization to understand the safety conditions under the prevailing system and proposed changes that will help improve the safety and reliability of the systems installed at the premises. Our report indicates the measures advised to be installed at the facility to improve safety performance, provided that the compliance is abided to the national, International standards and all local legal requirements as may be described and amended time by time.

Relevant Annexures as Follow.



(Formerly Karachi Electric Supply Company Limited)
Procurement Department
 1st Floor, OTB (Old Transport Building),
 Elandar Road (Power House) Complex, Karachi - 74400
 Phone # 021 - 32637133 / 38709132 (Ext. # 9414 / 7124)
 Website: [http:// www.kesc.com.pk](http://www.kesc.com.pk)
 Sales Tax Registration No. 12-00-2716-007-28

PURCHASE ORDER

Electrical Inspector Pak Pvt Ltd
 503, Al-Ameera Center, Near
 Passport Office, Shaharh-e-Iraq, Saddar, Karachi
Vendor Code: 152023
Telephone/Fax: 35661100/35662200
Plant: CCPP (220MW) Korangi
Ven.Sales Tax:
Vendor NTN: 3655023-0
Payment Terms: 30 days after receipt of Invoice / Challan, whichever is received later
Inco Terms: -

Purchase Order No. : 7500021881
Purchase Order Date : 02.09.2014
Our Reference : LPO/PP/289/14
Vendor Quotation No: NOEIPK I-K
Vendor Quotation Date: 22.07.2014
Currency: PKR
Contact Person:
Page: 1 of 2

Services of the Electrical Inspector for 220 MW CCPP Regularization. PR
 NO. 1400004779

S.No	Item Code Description	Quantity (Units)	Unit Rate (PKR)	Total Value (PKR)
1	SERVICES OF ELECTRICAL INSPECTOR	(AU)		1,500,000.00
1.1	SERVICES OF ELECTRICAL INSPECTOR SCOPE OF WORKS: 1. Preparation of Work Commencement Report 2. Endorsement of Work Commencement Report from EIK. 3. Approval of single line diagram by EIK. 4. Necessary Permission for Generators from EIK. 5. Submission of all Government duties and taxes 6. Fitness /Energization approval letter / certificate from EIK. IS REQUIRED FOR THE REGULARIZATION OF 220 MW, CCPP. COMPLETION DATE. 17.09.2014	1 (JOB)	1,500,000	
GROSS PRICE				1,500,000
Grand Total Value of Purchase Order				1,500,000

Amount in Words: RUPEES ONE MILLION FIVE HUNDRED THOUSAND ONLY

Terms of Payment:

- : Payment terms . within 30 days afte submission of invoice and required documents as per following break up.
- 20 % on endorsement of WCR
- 15% on Approval of Single Line Diagram
- 65% after issuance of fitness Certificate.

Note:

- : Performance bond not applicable.
- : prices exclusivE of GST.
- : M/s Electrical Inspector responsible for following.
- Preparation of WCR
- Endorsement of WCR from EIK
- Approval of single line Diagram by EIK



KARACHI CHAMBER OF COMMERCE & INDUSTRY

کراچی چیمبر آف کامرس اینڈ انڈسٹری

Younus Muhammad Bashir
President

Ref: KCCI/SG/2015-16/6676
27th October 2015

Advisor

Public Sector, Utilities, Power & Gas Sub - Committee
Karachi Chamber of Commerce & Industry
Karachi, Pakistan

Subject: Nomination as Advisor of Sub-Committee

Dear Mr. Wali M. Rahimoon

I am pleased to inform you that you have been nominated as "Advisor" of Public Sector, Utilities, Power & Gas Sub - Committee of KCCI for the year 2015-16.

It is important to emphasize that the core objective and mission statement of Businessman Group (BMG) is "Public Service" and the vision of Karachi Chamber of Commerce & Industry (KCCI) is to act as the leading voice of Business and Industrial Community. We strive to provide assistance, protect the rights of members and Karachiites and promote Trade & Industry of Pakistan. To achieve the desired objectives, KCCI acts as a bridge between the Government and Private Sector while executing its functions with the support of its Sub-Committees in formulating proposals and action plans.

KCCI's Sub-committees play a crucial role in compiling recommendations on various issues confronting the trade and industry and propose solution to problems, which are submitted to Managing Committee for approval and later on forwarded to the President and other Office Bearers for implementation. The Sub-Committee will function in the light of following guidelines:-

- Chairman of Sub-Committee with the assistance of Deputy Chairman, Advisor and Sr. Vice Chairman will set goals and devise activities for the year, besides highlighting the vision and mission and the same will be submitted for approval.
- It is mandatory for each sub-committee to hold at least 6 meetings during its tenure to evaluate the progress and review achievements.
- Every Communique/ letter of the sub-committees to the Government/ Private Sector or any other organization/ institution will be subject to approval by the President and Office Bearers while the protocol for signing the document will be strictly adhered which starts from President, followed by Senior Vice President, Vice President and then the Chairman of the committee.
- No Guest of Honor will be invited in the Sub-Committee meetings.
- Sub-Committee meetings will be convened in compliance with the Standard Operating Procedures with General Body Members who desire to be part of these committees and find out issues concerning them, and prepare summary of issues and solutions for the same.
- The Chairman will present their Sub-Committee reports in the Managing Committee meetings for performance evaluation, scrutiny and approval.

I sincerely hope that you will accomplish the aims of your Committee in the larger interest of trade and industry.

With profound regards

Your Sincerely

Younus Muhammad Bashir
President

KCCI's Building, Aiwan-e-Tijarat Road,
Off: Shahrah-e-Liaquat,
Karachi-74000 (Pakistan)

E : president@kcci.com.pk
W : www.kcci.com.pk

D : +92 21 9921 8020/30
P : +92 21 9921 8001-9
F : +92 21 9921 8040

A555055



SHAKEEL IQBAL STAMP VENDOR
Lic No 69 Shop No 113 New Ruby Centre
Talpur Road, Boulton Market, Karachi

24 JAN 2013

S No ... 181725 ...
Date ...

Issued to with Address ... *Engro Poly* ...

Through with Address ...

Purpose ...

Value Rs. ... Attached ...

Stamp Vendor's Signature ... *Shakeel* ...

(NOT USE FOR FREE WILL & DIVORCE PURPOSE)

Electrical Inspection Services Agreement

This Agreement is made on this, the 28th day of April, 2013.

By and Between

Engro Polymer & Chemicals Limited, a company incorporated under the laws of Pakistan and having its principal place of business at 16th Floor, the Harbor Front Building, Marine Drive, Block 4, Clifton, Karachi, Pakistan, hereinafter called the Company, which expression shall, wherever the context so requires or permits include its successors and assigns, of the one part

And

Electrical Inspector Pakistan (Pvt) Ltd, a company formed under the laws of Pakistan, having its office at 503, Al-Ameera Centre, Shahrahe Iraq, Saddar, Karachi, hereinafter called the Consultant, which expression shall, wherever the context so requires or permits, include its successors and assigns, of the other part.

Whereas

The Company is desirous of obtaining Electrical Inspection Services, herein after called the Services, at its premises located in Western Zone, Port Qasim Industrial Area, Port Qasim, Karachi.

And Whereas

The Consultant warrants that it is in a position to provide required Services on the terms and conditions set out below.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

Article 1, Consultant's Scope of Work

1.1 Retrieve and provide to the Company, originals or clear copies of complete set of documents prepared for the Company in 2008/2009 under Company Purchase Order No: 763676 dated September 16, 2008, copy attached to this Agreement as Attachment-1 (Documents). The

umpire to be appointed by arbitrators before entering upon the reference and the unanimous decision of the two arbitrators or in the case of difference between them the decision of the umpire, shall be final and binding on the Parties. The arbitration shall be held at Karachi in accordance with the provisions of the Arbitration Act 1940 and any amendment or re-enactment thereof.

Article 10, Best Interests

The Consultant shall exercise reasonable care and diligence to prevent any action or condition, which could result in a conflict with the Company's best interest. This obligation shall apply to the activities of the employees and the agents of the Consultant in their relations with the Company and its employees, and their families, vendors, subcontractor and third parties arising from this Agreement and accomplishing services hereunder. The Consultant's efforts shall include, but not be limited to, establishing precautions to prevent its employees and agents from making, receiving or providing, offering substantial gifts, entertainment, payment, loans or other considerations for the purpose of influencing individuals to act contrary to the Company's best interest.

Article 11, General Provisions

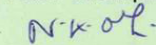
- (a) Any addendum to this agreement issued with mutual consent between the Parties, from time to time, shall form an integral part of this Agreement;
- (b) No agency or employee/employer relationship exists or shall be construed between the Parties or their employees.
- (c) This Agreement shall be governed by the laws of the Islamic Republic of Pakistan and, subject to Clause 9 above, the courts at Karachi shall have exclusive jurisdiction.
- (d) Unless specifically provided, all notices required or permitted to be given by one party to the other party hereunder shall be specifically given in writing and sent by email or courier or facsimile transmission to the other party at the addresses given below:

Attention:	<u>If Sent to Company</u> Nasir Khaliq Qureshi	<u>If Sent to Consultant</u> Wali Muhammed Rahimoon
Designation:	Manager, Purchasing and Admin	Executive Director
Email address:	nqureshi @engro.com	eipk@live.com
Mailing Address:	As given on page 1	As given on page 1

- (e) Total Agreement: This Agreement supersedes all arrangements, agreements and understanding whether written or oral reached or purported to have been reached between the Parties hereto prior to this agreement.
- (f) Parties Rights: No failure on the part of either Party to exercise and or delay in exercising its rights hereunder shall constitute a waiver thereof. Part performance shall not be deemed a waiver of any breach.

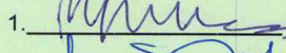

In witness whereof the parties hereto have put their respective signatures and seals on this the 29th day of April 2013, at Karachi in presence of witnesses.

For and on behalf of:
Engro Polymer & Chemicals Ltd.
Nasir Khaliq Qureshi

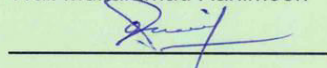


Manager, Purchasing and Admin

Witness:



1.  (Khaleel Mukae)
2.  (Wahid Akram)

For and on behalf of:
Electrical Inspector Pakistan Pvt Ltd
Wali Muhammad Rahimoon



Executive Director

Witness:

1.  (Afzal Ali Rahimoon)
2.  (Shahad Sabir)



BUREAU OF INSPECTION & CERTIFICATION (PVT.) LTD.

To
The Deputy High Commissioner
Deputy High Commission Bangladesh
The Visa Officer - Consular Department
75 / II, Main Khayaban-e-Bahria, Phase V,
DHA, Karachi, Pakistan

Ref: TUV/Admin/2109-2015
Monday, 21st September, 2015

Ref: Issuance of Single Entry Visa to Mr. Wali Muhammad Rahimoon

Dear Sir/Madam,

I am writing to request your kind assistance in granting a single entry visa to Mr. Wali Muhammad Rahimoon, for a proposed visit to Dhaka, Bangladesh. Personal details of Mr. Wali Muhammad Rahimoon are as below:

Name	:	WALI MUHAMMAD RAHIMOON
Father's Name	:	MUHAMMAD ALI RAHIMOON
Date of Birth	:	10 NOV 1965
Place of Birth	:	THARPARKAR, PAKISTAN
Citizenship No	:	42301-9010543-5
Passport No	:	AS9155432
Place of Issue	:	PAKISTAN
Issued Date	:	11 MAR 2015
Expiry Date	:	09 MAR 2025

TÜV Austria Bureau of Inspection & Certification (Pvt.) Ltd. is a subsidiary of TUV Austria AG holding and has been in business since 1872. TUV Austria Bureau of Inspection & Certification (Pvt.) Ltd. is offering management system certification services to Food, Petrochemicals, Cement, Dairy, Fertilizers, Leather, Oil & Gas, Power, Agriculture, Education, Medical, Tourism, Telecommunication, Chemical, Mining, Construction and almost all the major industrial sectors by utilizing accreditations from primary international bodies like ESYD, PNAC of Pakistan, AUSTRIAN, etc. Today, more than 2500 experts in **TÜV AUSTRIA Group** serve our customers in more than 300 areas of service expertise. TUV Group boasts a presence of **50 plus offices** in more than **40 countries**.

TÜV Austria Bureau of Inspection & Certification (Pvt.) Ltd. particularly perform third party Management System audits in the field of Quality, Environment, Food Safety, Health & Safety, Information Security etc. and also perform technical inspection in the field of gas & oil.

Mr. Wali Muhammad Rahimoon is the trainer, inspector & technical specialist of TUV Austria Pakistan, TUV Austria Srilanka & TUV Austria Bangladesh and need to travel to Bangladesh to perform inspections and trainings against the technical needs of our valuable clients in Dhaka-Chittagong.

I therefore request you to please issue him a single entry visa. In case of any clarifications please do not hesitate to contact the undersigned.

Yours faithfully

Md. Ataur Rahman Khan
Country Head - Bangladesh
TÜV Austria Bureau of Inspection & Certification (Pvt.) Ltd
Cell: +88-01711693811

Page 1 of 1

Bangladesh Office: House-105 (2nd Floor), Flat-B2, Road-13/A, Block-C, Banani, Dhaka-1213, Bangladesh. T: 8836404; F: 8836403
Regional Head Office: 43/2, Main Gulberg, Lahore, Pakistan. T: +92 (42) 111 284 284; F: + 92 (42) 35872179-80
International Head Office: Krugerstrasse 16, 1015 Vienna Austria, Tel: + 43 (0) 514 07

www.tuv.at

THE COMPANIES ORDINANCE, 1984

COMPANY LIMITED BY SHARES

MEMORANDUM OF ASSOCIATION

ELECTRICAL INSPECTOR PAKISTAN (PRIVATE) LIMITED

NAME

- I. The name of the company is ELECTRICAL INSPECTOR PAKISTAN (PRIVATE) LIMITED.

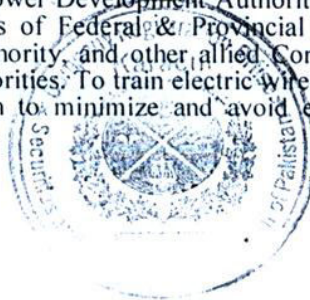
REGISTERED OFFICE

- II. The registered office of the company will be situated in the Province of Sindh (Pakistan).

OBJECTS

- III. The aims and objects for which the company is established are all or any of the following:
1. To carry on all or any of the businesses of generating, purchasing, importing, transforming, converting, distributing, supplying, exporting and dealing in electricity and all other forms of energy and products or services associated therewith and of promoting the conservation and efficient use of electricity and to perform all other acts which are necessary or incidental to the business of electricity generation, transmission, distribution and utilization.
 2. To Act as advisor / consultant for KESC (Karachi Electric Supply Corporation), WAPDA (Water and Power Development Authority), IPD (Irrigation and Power Department), Finance Departments of Federal & Provincial Government, NEPRA (National Electricity Power Regulatory Authority) and Allied Corporation, Organization, Association, and Regulatory Authorities to locate, establish, construct, equip, operate, use, manage and maintain thermal power plants and coal fired power plants, power grid station, transforming, switching, conversion, transmission facilities, grid stations, cables, overhead lines, sub-stations, switching stations, tunnels, cable bridges, link boxes, heat pumps, plant and equipment for combined heat and power schemes, offices, computer centers, shops, dispensing machines for pre-payment cards, development of procedure and methodology of payment of electricity bills, Meter testing laboratories to determine the accuracy of electric measuring equipments and other devices.
 3. To Provide Billing, Tariff, Electricity Duty, Energy Audit, reconciliation of bills and Electrical Consumer Products Consultancy to the consumers of Karachi Electric Supply Corporation, Water and Power Development Authority, Irrigation and Power Department, Finance Departments of Federal & Provincial Government, National Electricity Power Regulatory Authority, and other allied Corporation, Organization, Association, and Regulatory Authorities. To train electric wireman and supervisor and examine the electrical installation to minimize and avoid electric hazards for the safety of public lives and property.

Attested
Imdad Shah
Assistant Electric Inspector
Karachi Region, Karachi





Evershine Constructors

Approved Govt. Contractors, Civil, Electrical, Mechanical, I.T. Networking, Importers/Exporters Equipments & General Order Supplier

ESC/EIP/2809/16.

Date: 26-04-2016

Attention: Engr. Wali Rahimoon,
M/s: Electrical Inspector Pakistan (Pvt.) Ltd,
503, Al-Ameera Center,
Near Passport Office, Saddar,
KARACHI
TEL: 02135661100, 0300-8228223
Email: info@ei.com.pk

Sub: **WORK ORDER FOR 11KV TESTING ACTIVITIES OF NATIONAL INDUSTRIAL PARK(NIP), KHAIRPUR**

Dear Sir,

In response to your Quotation EIP/NIP/ES/2016/Q-1, Dated 25-04-2016 we are pleased to agree with the cost of job Rs. One Million, PKR 1,000,000/= as well as terms and conditions as referred in your bid, subsequently give you work order hence this may be treated as purchase order which will cover the following agreed scope of work.

Scope of Work of Testing Activities:

1. MV Panels Testing including Protection relay testing (o/c, s/c & e/f)
2. Ring Main Unit's Testing including Protection relay testing (o/c, s/c & e/f)
3. Transformer IR Testing
4. Cable IR Testing
5. LBS & DB's Testing
6. Contact resistance Testing
7. Earth Pit Testing
8. Hi-pot Testing of BB

NOTE: - The job is to be completed within the stipulated time and upto the satisfaction of supervising Authority/ Consultant M/s: EA Engineering Associates.

50% of agreed amount has already been paid to your representative Mr. Shamsuddin, remaining 50% will be paid upon completion of the job and issuance of Clearance/Completion certificate by the Consultant.

We hope that the above are found as per your satisfaction and in case of any clarification please feel free to contact us.

Yours Faithfully,
For M/s: Evershine Constructors


(Shamsuddin)
Managing Partner

HEAD OFFICE
KARACHI

Office No. 121, 1st Floor, Business Arcade, Chaudhri Chowk,
Opp. Askari Park, Main University Road, Karachi.
Ph: 02134120407, 02199217994 Fax: 02134120406, 02199217994
Call: 0333-2227451 Email: es.constructors@yahoo.com

BRANCH OFFICE
ISLAMABAD

Office No. 283, 2nd Floor, Al-Anayat Shopping
Mall, G-11 Markaz, Islamabad, Ph: 051-8739741
Fax: 051-8739742 Call: 0305-8100892
Email: info@evershine-marketing.com



GOVERNMENT OF SINDH

SINDH REVENUE BOARD



SINDH SALES TAX REGISTRATION CERTIFICATE

Issued under section 24, 24A & 24B of the Sindh Sales Tax on Services Act, 2011
read with rules 5 & 6 of the Sindh Sales Tax on Services Rules, 2011

Sindh Sales Tax Registration No.: S3655023-0

Name of the Registered Person: ELECTRICAL INSPECTOR PAKISTAN (PRIVATE) LIMITED

Business Name (s): ELECTRICAL INSPECTOR PAKISTAN (PRIVATE) LIMITED

Tariff Heading & Principal Service: 9815.5000: SERVICES PROVIDED BY TECHNICAL, SCIENTIFIC AND ENGINEERING CONSULTANTS.

Tariff Heading & Other Taxable Services: 9819.9400: TECHNICAL TESTING AND ANALYSIS SERVICES.
9840.0000: TECHNICAL INSPECTION AND CERTIFICATION SERVICES

CNIC / Reg. or Inc. Number: 0073632 Status: COMPANY-(PRIVATE LTD.)

Address: 503,AL-AMEERA CENTRE ,SHAHRAH-E-IRAQ, SADDAR,KARACHI, DISTT:KARACHI,SINDH

Phone No.: +92,021,35630442 E-mail: hameed.asociates@gmail.com

Date of Issue of this Certificate: 25-JUL-2016

NOTE: THIS CERTIFICATE IS PROVISIONAL AND IS VALID FOR 03 MONTHS FROM DATE OF ISSUE OF THIS CERTIFICATE

This Certificate shall be prominently displayed at a conspicuous place of the premises in which business is carried on



RGCRT-072016-2362111-0