

***TABESH TABLO SHARGH Co.***



# *History Of Tabesh Tablo Shargh Company*



## **T.T.SH CO.**

with the use of :

- ◉ the modern machinery tools
- ◉ experience under the supervision of expert
- ◉ With professional engineers in consulting, design, manufacturing of switchboards
- ◉ Based on latest global standards
- ◉ by having interior and international trading facilities
- ◉ Cooperating in the international control and power distribution project.
- ◉ Member of association guild manufacture of electrical boards



# *CNC machinery*



*Mechanical unit area is 1500 m<sup>2</sup>  
That contains advanced machinery*



# CNC Punch

Punching is performed by the METALX Program



with out the slightest error

Ability to punching the sheet to 2m Length



# *CNC Press Break*



*Bending machine capable of bending up to 3m wide*



# *Welding Unit*



*Welding types:*

Welding point

Co2 welding



# *Washing Pool*



Removing the sheet's oil by degradation  
dehydration and phosphates



# *Painting Grill*



*Electrostatic color that blows the powder to the product and enters the furnace*

# *warehouse*



*The warehouse contains more than 10000 parts like MV & LV equipments.*

# *warehouse*



*The storage area is more than 3000m<sup>2</sup> which the parts are located on its special shelevs*



# *warehouse*



*Lay out compliant with ISO-9001 & ISO-14001 standards for easy access.*

# *warehouse*



*The main warehouse contains raw-materials and manufactured products.*



# *Technical Engineering Department*



*Technical Engineering Department space is 500 m.  
With cooperation of expert engineer.*



# *Assembly Unit*



The assembly unit is located at high discipline situation and space is more than 1500 m<sup>2</sup>.



# *Assembly Unit*



# Machines for bending and punching ingots bar:



All punches and bends are done with precision machines.



# QC – HV LAB



*Power frequency test:  
Apply voltage 50-100 KV for one minute*

# QC – HV LAB



Impulse test :Apply voltage up to 100kv at specified time



# Prefabricated compact substation



<b>MV</b>	<b>OS/OS/Mg/FS</b>	<b>SAREL (Italy)</b>
<b>TR</b>	<b>800KVA</b>	<b>Low Loss-AB'</b>
<b>LV</b>	<b>MCCB 1250A</b>	<b>HYUNDAI (South Korea)</b>





*-Prefabricated body post fully bolted to the floor and connected to the ground.*

*-It is easy to assemble and dismantle on a foundation.*



- In the design of the body ,the city`s beauty and look have been taken in to consideration.*
- The lower body of the base is made of hot galvanized and corrosion resistant the walls are made of an oil-filled with electrostatic furnace Paint*





The compact substation is asset of transformers, low voltage switchgear and medium voltage switchgear

Input voltage is 20KV and output voltage is 380V which is compressed to chamber which used In balding , factories , urban and rural construction centers ,mines to supply energy these type of sub stations are produced in capacities of 200 to 1600 KA it is ground -based and on a foundation .



*PFS. is installed and designed according to the geographical location of the site the post layout plan will be reviewed depending on the location map to be able to access the smallest (in terms of size ) mode of access and also choose in terms of economical.*



# Technical parameters

Rating		
Nom. Operating voltage	6.6	20
Rated Max. voltage	12	24
Rated power frequency	50	50
Rated continuous current	200-2500	200-2500
Rated lighting impulse with stand	95	95
Internal Arc current/1s	20	20
Enclosure thermal class	10	10
MV/LV compartment protection Degree	4x	4x
Transformer compartment protection Degree	23D	23D
Enclosure type	Steel	Steel
MV component	AIS	AIS
LV component	CB/LBS	CB/LBS
standards	IEC202-62271	



## *Low voltage switchgear with IP43*



Protecting these boards against objects larger than one millimeter



# *Low voltage switchgear with IP54*



Protection against water pressure at the pressure of 100 KPA

And protection against objects larger than 1 millimeter

# *Wall panels*



***MCB , MCCB:***  
**HYUNDIA**

Wall panel for use in high humidity environment



# *Wall panels*

**MCB , MCCB :  
SCHNEIDER**

**Out door use  
With IP54**



# *Wall panels*



Wall panels are designed and manufactured in different size and design

# ***BMS panel***

**Performance  
planning control  
system**

**Ability to control and  
monitor all points  
of delivery under  
control via net work**





# Capacitor panel

- ***Features:***
- **Custom design**
- **Ability to install different kind of measuring devices**
- **for use in factories**



# Explosion proof boxes

**Construction:**  
Single or multi enclosure panels are built to customer specifications.

**Enclosure:**  
Copper free Aluminum alloy suitable for petroleum and marine locations. Cast iron on request.

**IP rating:**  
Up to IP65 and IP66 to IEC 529. IP67 supplied on request.



# CERTIFICATE

NIS CERT Corporation certifies that the company



## Tabesh Tablo Shargh

No.1044, Sepidar St, North Jami Ave, Khayam Blvd,  
Abbas Abad Industrial Town, Khavaran Road, Tehran, Iran

for the scope

"Design Produce & Install of Medium &  
Low Voltage Power Control Centers"

has established and applies a

**Quality  
Management System.**

A quality audit performed by NIS CERT  
has verified that this quality management system  
fulfills the requirements of the following standard:

**ISO 9001**

(ISO 9001:2008-11-15)  
(Audit Report No. N212040)

This certificate, No. N212040/20203D, is

**valid until January 14<sup>th</sup>, 2016.**

April 18<sup>th</sup>, 2013

Alex Dawn  
NIS CERT Management



Robert Nanks  
Project Management



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**ELECTRICAL POWER INDUSTRIES  
LABORATORIES CO.**



Test report : 1593

25/01/2010

Page 1 of 6

TL0702-160529

## TEST REPORT

NO.1593

Project code: TI/0702-160529

IP4X Test Report For Panel (According to annex A)  
Manufactured By Tabesh Tablo Shargh Co.  
According to IEC 60529  
(Degree Of Protection)

Karaj, 25/01/2010

By Order Of NRI, Tehran, Iran

No. of pages

8

Issue date

25/01/2010

Prepared: Test & Inspection Engineer  
M. Mirfakh

Approved: Engineering Deputy of Test and Inspection  
(Representative of Amirkabir University of Technology)  
Dr. B. Vahidi

This test report does not include an assessment of the manufacturer's production. Conformity of the  
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The test results relate only to the sample tested.

No. 105, After Mofakkeh Crossway, Mofakkeh St., Tehran - Iran, Tel: 009821 83841376, Fax: 009821 83841378, Email: info@epil.com



IRANIAN ELECTRICAL PANEL MANUFACTURING ASSOCIATION (IEPMA)

تحت پوشش وزارت تعاون، کار و رفاه اجتماعی - ثبت شده به شماره ۱۷۴-۳۲-۳۲۰۲۲۷  
Since 18, July 1998 With Registration Number 32-32-174, Covered by Ministry of Cooperatives, Labor and Social Welfare

بدین وسیله گواهی می شود شرکت

**This is to Certify That**

**Tabesh Tablo  
Shargh Co.**



**تابش تابلوی شرق**

عضو انجمن صنفی تولید کنندگان تابلوهای برق ایران می باشد.  
**is the Member of (IEPMA)**

Membership No.: 174 / 165

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Secretary of the Board

Secretary of the Board



ISO 9001:2008 Accredited

**E.P.I.L.**  
Electrical Power Industries  
Laboratories Co. (J.S.)



Accreditation No. 1450-008

Test report : 2382

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LQI-510-02

## TEST REPORT

Project No.: TI-1526-160529

IP43 Test Report for: Compact Substation

Dimension (mm): 2640 x 3300 x 2000 (H\*W\*D)

Rated Power: 800 kVA

Manufacturer: Tabesh tablo shargh.

Ordered by: NRI

Tested According to: IEC 60529 Ed2.1 - 2001

No. Pages

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Issue date

15-Jan-2013

Prepared: Test Engineer  
M. Javadijeh

Verified: Head Of LV Lab  
S. Mirfakh

Approved:

Engineering Deputy of  
Test and Inspection  
Prof. B. Vahidi

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