



# ***Products and production line***



# ***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***





*Company Representatives*



# ***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***





# ***Painting Grill***



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



# ***warehouse***



- ***The ware house 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*
- *Impulse test :Apply voltage up to 100kv at specified time*



# ***Prefabricated compact substation***



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





***-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 devises*
- *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.***

