



# Product Catalog- Supplier's guide to locally manufactured products

## #ChooseLocalGrowPakistan



Pakistan's Annual imports were **56.8BN\***, 2X the annual exports. **PKR depreciated 30%** vs the USD making Localisation the need of the hour.

Through the Make in Pakistan Initiative, KE intends to support local businesses through which at a macro level we will be able to:



Reduce dependence on imports.



Strengthen the local supply chain



Benefit balance of payments



Generate employment



Enable growth

This brochure contains the list of products KE is ready to source locally. Suppliers who would like to show an expression of interest can contact us at **[localisation-committee@ke.com.pk](mailto:localisation-committee@ke.com.pk)**

\*as per Pakistan's Bureau of Statistics FY-21



## MOULDED CASE CIRCUIT BREAKER (MCCB)

### APPLICATION:

MCCB is a device used to protect electrical circuits from overloading or short circuiting. It stops flow of excessive electricity to prevent damage to major equipment.

HSCODE 8536.2010



## DROPOUT CUTOUT SWITCH

### APPLICATION:

A cutout or fuse cutout is a device that combines a switch and a fuse. It is used in primary overhead feeder lines and taps to safeguard distribution transformers from short circuits, current surges and overload.

HSCODE 8536.5099



## SPLICES

### APPLICATION:

The device is used to join two cable or conductor ends. It provides good quality and safe electrical joints. Non use of splice may lead to an accident or damage to the circuit.

HSCODE 7604.2910



## BI METALLIC LUGS

### APPLICATION:

Bimetal lugs are commonly used to connect aluminum cables to substation copper terminals. They are specifically designed for terminating aluminum conductors onto copper bus bars in electrical applications such as control panels and switchgear.

HSCODE 8547.9000



## 11KV SF6 LOAD BREAK SWITCH

### APPLICATION:

The Load Break Switch is a 11kV switch gear. It uses sf6 as insulating media. It is installed on poles to sectionalize HT circuits in overhead lines. It is an on-load switching device that can make and break 11 KV circuits without feeder switching from the Grid station, substation, or RMU.

HSCODE 8535.3010 &  
8535.3090



## 11KV NUMERIC RELAY

### APPLICATION:

A numerical relay is a type of microprocessor-based protective device that uses software algorithms to detect electrical faults.

HSCODE 8536.4990



## SILICON RUBBER PROTECTION COVERS

### APPLICATION:

Silicon rubber covers are used in Distribution Transformer to cover bushing. It helps to prevent accidents caused by short circuits or flashovers resulting from wind, animals, birds, or objects falling onto HT/LT bushings.

HSCODE 3926.9099



## 11KV SF6 RING MAIN UNIT

### APPLICATION:

This equipment offers operational flexibility and back-feeding option in 11kV distribution network. It is designed to be used for ring/T-off of 11kV underground networks and feeders.

HSCODE 8537.2000



## 11KV JOINTS & TERMINATIONS

### APPLICATION:

Utilized for joining underground insulated cables. Cable terminations establish both physical and electrical connections between the cable and terminal. It helps in restoring flow of electricity as intended.

HSCODE



## EARTH FAULT INDICATOR

### APPLICATION:

The Self-Reset type Earth Fault Indicating Relay is designed to quickly detect the location of earth fault in the 11kV distribution system. It helps in identifying faulty section and to promptly restore distribution network.

HSCODE 8536.4990



## EPR TAPE

### APPLICATION:

It is used in high voltage cable applications due to its superior temperature resistance and higher electrical insulating properties.

HSCODE 4002.7000



## RUBBER INSULATING GLOVES CLASS '0'

### APPLICATION:

For protection from electric shock while working on live LT lines and equipment.

### Basic Requirement:

IEC 60903 (Latest Applicable) Compliant Sizes are 9, 10, 11

HSCODE 4015.9000



## RUBBER INSULATING GLOVES CLASS '2'

### APPLICATION:

For protection from electric shock while working on HT (11KV) lines and equipment.

### Basic Requirement:

IEC 60903 (Latest Applicable) Compliant Sizes are 9, 10, 11

HSCODE 4015.9000



## INDUSTRIAL SAFETY HELMETS

### APPLICATION:

It is a basic safety head protecting item from a falling object.

### Basic Requirements:

BS EN397 Compliant

Class E

Type I

Material:

Polycarbonate/ polyethylene

Non Vented type

HSCODE 6506.9900



## SAFETY GUMBOOTS

### APPLICATION:

Provides feet-protection against exposure to highly slippery & dirty fields especially during rain.

### Basic Requirements:

ISO 20345 (Latest Applicable)

Class 2 S5 SRC Rated

heavy duty PVC Upper having Nylon lined inside and hard toe

HSCODE 6405.9090



## SAFETY HARNESS

### APPLICATION:

Used to provide protection to personnel from falling while working on HT/LT overhead lines.

### Basic Requirements:

Universal Size; material Polyester

Front Positioning belt, double Webbing Lanyard EN 361 and EN 362 Compliant Shall be able to sustain a force of 22kN or 100 kg when tested as per EN 354:2010 or similar test method

HSCODE 6307.9000



## 11KV LIVE LINE TESTER

### APPLICATION:

A Live Line Tester is used to measure / detect presence of voltage on any 11kv line. It helps the user to decide if the line is live or dead. (it is an important safety tool).

### Basic Requirements:

Indication should be both visual and audio. The audio signal should be loud, clear and distinctive.

- i. Working voltage range: H.V. : 3kV~24kV AC L.V. : 80V~600V AC. 50Hz
- ii. Maximum Earth Fault Current 26 KA
- iii. Maximum symmetrical short Circuit Current 26 KA iv. Telescopic elongation type.

HSCODE 9030.3200

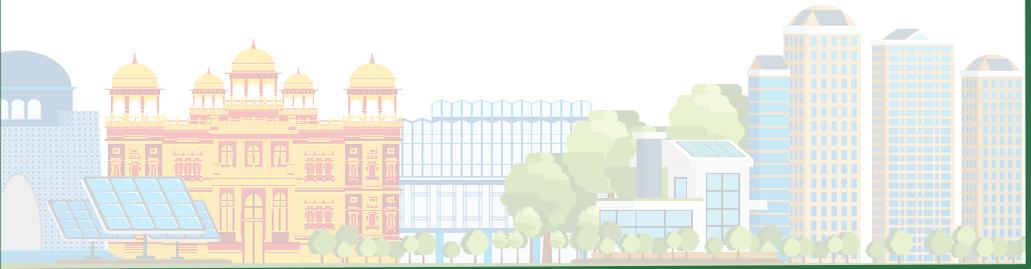


## CARTRIDGE FILTER FOR RO PLANT

### APPLICATION:

These are cartridge filters for Sea Water RO plants installed between Multimedia filters and membrane.

HSCODE 8421.2100



## GAS TURBINE PRE FILTER CLASS: G-4

### APPLICATION:

Used as intake air filtration system of gas turbines. Its performance is critical for the life of the final air filters, compressor blades and overall gas turbine performance.

### Technical Detail:

Media: 100% Synthetic  
Frame: High Impact Plastic  
Size: 594mm x 594mm x 96mm

HSCODE 8421.3190



## GAS TURBINE PRE AIR FILTER

### APPLICATION:

The gas turbine intake air filtration system consists of 2 layers; primary & secondary filtration system. It is first line of defence for the turbine.

### Technical Detail:

size 593mm x 593mm x 88mm  
the tolerance level is +1mm (-0mm) in all dimensions

HSCODE 8421.3190



## PRE PRE AIR FILTER

### APPLICATION:

This is the first layer (pre-primary) for intake air filtration. This enhances the life of primary air filters.

### Technical Detail:

2" THICK, 600X1200X50MM  
dust collector filter  
High Flow rate Filter media  
High dust holding capacity with very low resistance  
Material: Glass fiber

HSCODE 8421.3190



## CARTRIDGE FILTER INNER BLANKET

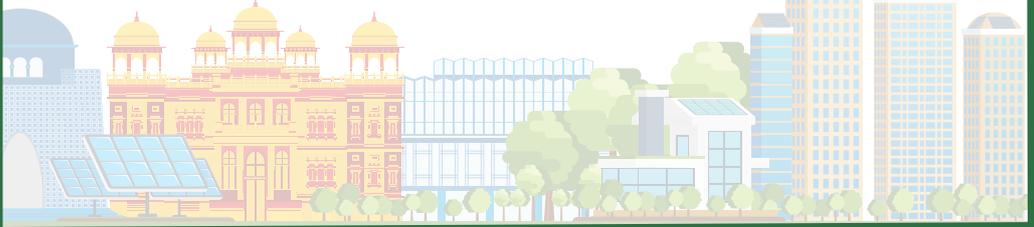
### APPLICATION:

These are installed as final filter for Gas Turbine, it helps to enhance its life.

### Technical Detail:

Composite Filter, inner for Gas Turbine Inner element, flat style, with retainer strip Material : Poly

HSCODE 8421.3190



## GAS OUTLET FILTER ELEMENT

### APPLICATION:

Filtration of Gas going inside Gas Turbine for combustion purpose. Critical in nature.

### Technical Detail:

Ø90 x Ø152 x Ø736mm

Coalescer cartridge with pleated integrated pre-filter section. With inner and outer core provided with cotton sock.

End caps: ring with gasket at both ends. max. operation temperature: 80°C / flow direction: inside to outside

HSCODE 8421.3190



## PRE-FILTER FOR PRO & SRO MEMBRANE

### APPLICATION:

Medium: Sea Water.

Critical for the membranes useful life.

### Technical Detail:

Filter Element RO-40-P

OD=6inch; ID=2.9inch;

Total Height=40inch;

Filter Accuracy=4.5 micron

Material: Polypropylene

HSCODE 8421.3190



## FILTER ELEMENT

### APPLICATION:

These are HSD forwarding pump filters installed between day tank & operational tanks to maintain 5-micron filtration system class values.

### Technical Detail:

Size = 5 micron with min. 200 Beta Class

Temperature = 50 deg C

MAWP = 10 Bar

Flow Rate = 1500 litter / min

Filter Assembly Inlet/Outlet = DN 150 PN10

HSCODE 8421.3940



## INCOMER/OUTGOING/ADAPTOR/RCDC/ DUPLEX/AUXILIARY DISTRIBUTION PANEL

### APPLICATION:

Incomer panel is installed on the secondary side of Power Transformer.

Outgoing Panels feed power to KE 11kv substation network. adaptor panel used to couple bus bar of different MV Switchgear models and manufacturers.

RCDC Panels used to operate MV switchgears remotely from control room.

Used as a control and protection panel for 132KV line bay's equipment.

Used to provide AC power to run grid auxiliaries.

### Technical Detail:

Rated Voltage: 17.5 kVShort

Circuit Capacity: 25.0 KA/3sec

HSCODE 8537.2000



## NEUTRAL GROUNDING RESISTOR

### APPLICATION:

Installed on the neutral side of the power transformer's secondary winding in order to restrict the short circuit current.

### Technical Detail:

5 Ohms, 1500A, 10 seconds

BIL: 17.5/38/95 kV

AISI304 Resistor Plates

IP54, Outdoor type, RAL7032 Painted Galvanized Enclosure

HSCODE 8421.3190



## DUPLIX PANEL FOR TRANSFORMER BAY

### APPLICATION:

Used as a control and protection panel for Power Transformer and bay's equipment.

HSCODE 8537.2000



## DC AUXILIARY DISTRIBUTION PANEL RATING 220VDC AND 200A

### APPLICATION:

Used to provide DC power to energize protection relays and run grid DC auxiliaries.

HSCODE 8537.2000



## LONG ROD INSULATOR 132KV/220KV

### APPLICATION:

Used to provide necessary insulation between conductor & Transmission Line structure & to prevent any leakage current from the conductors to the earth. Also, mechanically securing conductor wire to a Transmission Line structure.

### Technical Detail:

LG 75/13-12/1080mm,  
Brown, Length 1080mm, Min. Creepage  
Distance 3300mm,  
lead spec. incl. 2 bolts



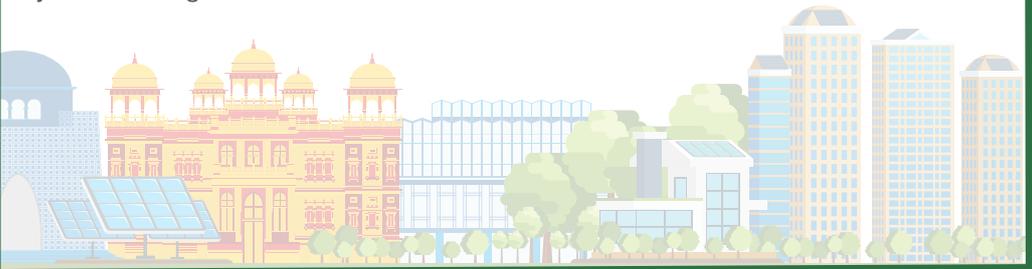
## CONTACTS (MALE & FEMALE) FOR 132KV ISOLATORS

### APPLICATION:

Moveable contacts Male/Female type installed on isolators arm.

### Technical Detail:

Material: Copper  
Rated Current 1250A to 1600A  
System voltage 132KV



## NATURAL GAS OCW HEAT EXCHANGER PLATES

### APPLICATION:

Used for heat transfer between Sea water and Demin Water. If material fails, then Sea Water mixes with Demin Water.

### Technical Detail:

Gasket Material: NBR per. (FDA) EasyClip

Over Plate Length mm 2,127

Over Plate width mm 1,116

Vertical port centers mm 1,653.74

Horizontal port centers mm 632



## HEAT EXCHANGER PLATE FLOW GASKET, CCCW, NG

### APPLICATION:

Used for sealing between Heat Exchanger Plates. If material fails, then Sea Water is mixed with Demin Water.



## CARBON BRUSH FOR GENERATOR NCC 634

### APPLICATION:

These are mounted on the generator's slip rings, which are attached to rotor. As the rotor spins, the carbon brushes make constant contact with the slip rings, allowing electrical current to flow from excitation system to the rotor winding (field winding), which produces rotating magnetic field to induce three phase AC power in the stator.

### Technical Detail:

Width: 25.4 mm

Thickness: 38.1 mm

Height: 102 mm

Reminder length: 45 mm



## EXPANSION JOINT; BOLSTER, HRSG, 600MM

### APPLICATION:

This is multilayered, steel mesh reinforced fiber cloth expansion joints used to account for thermal expansions of the exhaust duct. (gt exhaust & hrsg inlet)

### Material includes:

Fabric part and insulation material

Dimension: 7210 mm x 4046 mm x 600mm

1- fabric : 23 meters

2- bolster : 23 meter

3- bolster and fabric connection bolt-nut-washer (300 pcs)



## JACKING HOSE

### APPLICATION:

Internal part of Gas Turbine, used to lift the rotor at the time of startup to provide free rotation.



## CASTABLE REFRACTORY 13 T/13H

### APPLICATION:

Used as heat resistant insulation material at different locations of Boiler and Turbine such as Boiler burners, inspection glass, soot blower rack, furnace main hole's throats and wind boxes rings as per required thermal resistance.



## SCAFFOLDING (FIBER) GENEXX SCAFFOLDS FIBERGLASS 16 NOS.

### APPLICATION:

For working on heights to perform maintenance activities at outdoor termination (approximate height of around 6~8 meters). It is required to protect RTV coating applied over outdoor terminations.

### Technical Detail:

1.5 Meters

1.5 Meters

2 Meters

600kg approx

HSCODE 3926.9090





Connect with us at  
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