

ENERGY
CONSERVATION IS THE
TRUE SOLUTION







WE, JAIPURIA BROTHERS ELECTRICALS PVT. LTD, MANUFACTURE AN EXTENSIVE RANGE OF ELECTRICAL EQUIPMENT, EARTHING MATERIALS, EARTHING STRIPS, EARTHING WIRES, RUBBER PRODUCTS AND ELECTRICAL ACCESSORIES THAT ARE USED THROUGHOUT IN THE POWER SECTOR & DISTRIBUTION NETWORKS. WE ARE AN ISO 9001 CERTIFIED COMPANY CATERING TO A LARGE NUMBER OF COMPANIES IN THE ENERGY SECTOR. ESTABLISHED IN 1974, WE ARE ENGAGED IN SUPPLYING OF VARIOUS ELECTRICAL EQUIPMENT FOR THE MATERIAL HANDLING AND TRANSMISSION & DISTRIBUTION SYSTEMS FOR INDUSTRIAL, COMMERCIAL AND RESIDENTIAL SECTORS.

LEVERAGING ON OUR LONG INDUSTRY STANDING, WE HAVE EXECUTED DESIGN, SUPPLY & FABRICATION OF 2,4 & 6 POLE ELECTRICAL CROSSING BETWEEN QAZIGUND BARAMULLAH WORK RS. 6 CRORE. WE ARE ALSO EXECUTING DESIGN, SUPPLY, ERECTION, TESTING & COMMISSIONING OF 11 & 33 KV SUBSTATION ON 15 RAILWAY STATIONS IN J & K. THIS WORK IS WORTH AROUND RS. 4 CRORE. FURTHERMORE, WE HAVE ALSO DIVERSIFIED OUR OPERATIONS INTO TURNKEY PROJECT EXECUTION OF ELECTRICAL JOBS IN TRANSMISSION, LINES, SUB-STATIONS AND INDUSTRIAL ELECTRIFICATION.

WE EMPHASIZE ON IMPROVING OUR PRODUCTS & PROCESS IN ORDER TO BECOME SYNONYMOUS WITH TOP-NOTCH QUALITY AND WORLD-RENOWNED EXCELLENCE.

ADVANCED MANUFACTURING FACILITY

RELIABLE FUNCTIONING OF EQUIPMENT • SMOOTH AND EASY OPERATIONS • COMPLETE SAFETY SYSTEM TO PREVENT ACCIDENTS



TRANSMISSION LINES

OUR PRODUCTION PLANNING AND CONTROL UNIT IS AIDED BY THE LATEST RESEARCH TECHNIQUES INCLUDING COMPUTERIZED ANALYSIS. THE TECHNIQUES ARE CONSTANTLY ENGAGED IN MONITORING AND CONTROLLING PRODUCTION. FURTHER, WE ARE ALSO AIDED BY AN EFFICIENT AFTER SALES SERVICE TEAM WHO CATER TO ALL THE SERVICE AND SPARES REQUIREMENTS OF OUR CUSTOMERS.



SUB-STATIONS

SUPPORTED BY AN EXPERT TEAM, SOPHISTICATED INFRASTRUCTURE & EXTENSIVE KNOWLEDGE OF INDUSTRIAL REQUIREMENTS, WE ARE CAPABLE OF CONCEPTUALIZING, DEVELOPING, EXECUTING & COMMISSIONING VARIOUS KINDS OF TURNKEY PROJECTS PERTAINING TO



INDUSTRIAL EARTHING MATERIALS, ETC.

THESE COMBINED STRENGTHS IN THE POWER INDUSTRY - UPSTREAM AND DOWNSTREAM- HAVE HIGHLIGHTED OUR POSITION AS AN INDUSTRY LEADER. THIS HAS ASSISTED MAKING US A HIGHLY FUNCTIONAL COMPANY, ENGAGING IN R&D, PRODUCT ENGINEERING, TURNKEY PROJECT EXECUTIONS AND SALES WORLDWIDE.



OUR FORTE

**SOME ASPECTS THAT HAVE ENABLED US TO
CARVE A NICHE FOR OURSELVES IN OUR AREA
OF OPERATIONS ARE**

- **TECHNICAL KNOW-HOW FOR THE SUPPLY OF EQUIPMENT.**
- **EFFICIENT RESOURCE UTILIZATION**
- **CAPABILITY AND COMPETENCE TO EXECUTE HIGH VALUE TURN-KEY PROJECTS.**
- **CAPABILITY TO UNDERTAKE CHALLENGING SUPPLIES WITH VERY SHORT NOTICE ON EMERGENCY BASIS.**

OUR QUALITY ENDEAVOURS

WE STAND BY THE HIGHEST QUALITY STANDARDS

WE STAND BY THE HIGHEST QUALITY STANDARDS, ENSURING THAT OUR CUSTOMERS RECEIVE PREMIUM QUALITY PRODUCTS & SERVICES.

TO ENSURE ESTABLISHED STANDARDS OF QUALITY AND ACHIEVE CUSTOMER SATISFACTION, ALL OUR OPERATIONS HAVE ADOPTED A STREAMLINED PROGRAMME ON QUALITY CONTROL. ALL OUR OPERATIONS & PROCESSES, FROM THE ORDER FINALIZATION TO THE CONSIGNMENT DELIVERY, ADHERE TO ISO 9001 QUALITY SYSTEMS.

WE ENDEAVOR TO ELEVATE OUR STANDARDS OF PRODUCT & PERFORMANCE SO AS TO ACHIEVE CUSTOMER SATISFACTION THROUGH EXCELLENCE IN QUALITY. LEVERAGING ON A WELL STRUCTURED WORK PROCESS, QUALITY IS MAINTAINED AT EVERY STAGE OF FUNCTIONING.



Power

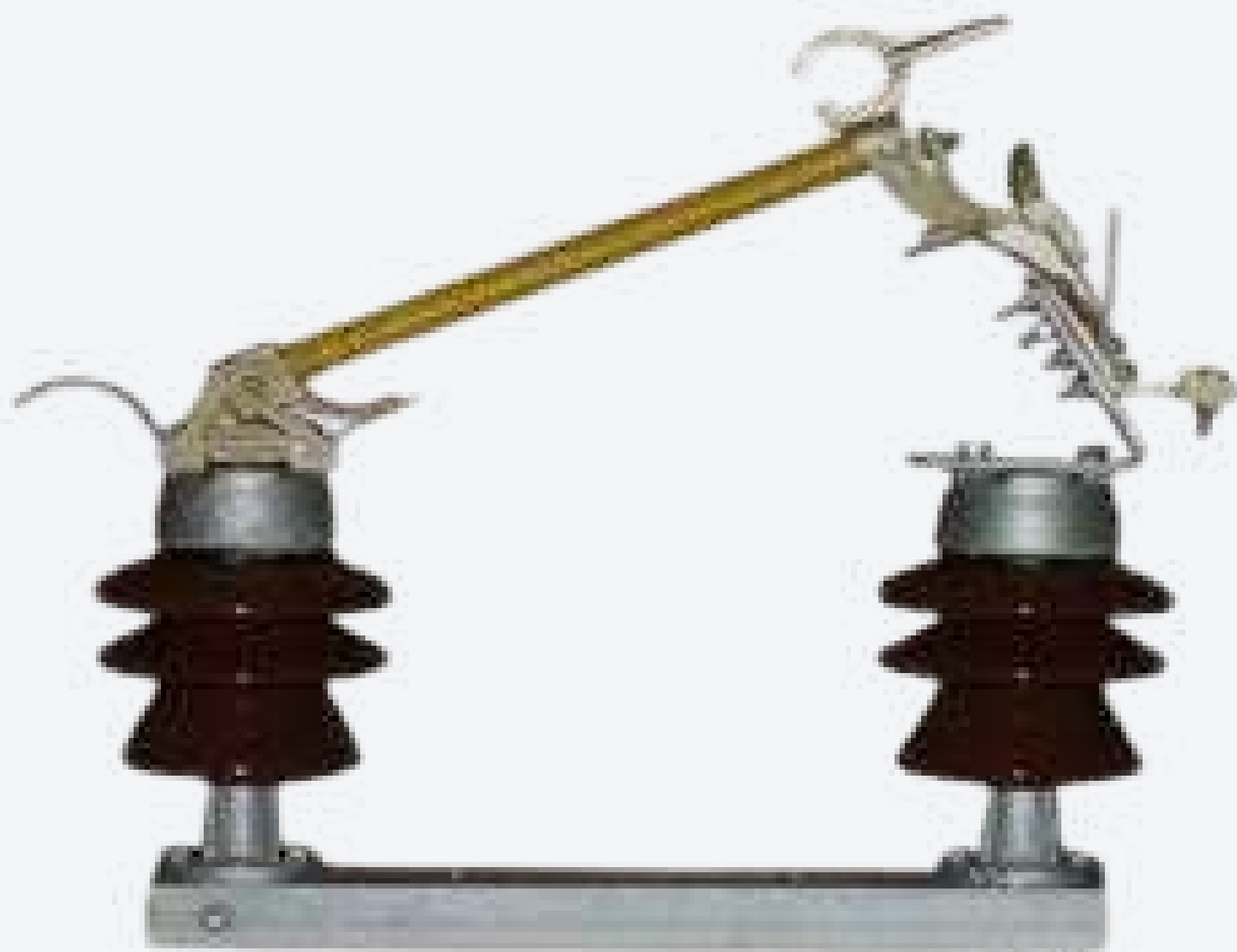


ENERGY

11 KV DROPOUT FUSE

DROP OUT FUSE (D.O.F) ARE FUSE CARRIERS OF FIBER GLASS TUBE WITH HEAVILY TINNED NON FERROUS METAL PARTS AT BOTH THE ENDS. THE BRUSH TYPE PHOSPHOROUS BRONZE CONTACTS PROVIDE HIGH PRESSURE MULTI-LINE CONNECTION, WIPING AND CLEANING ACTION. THE DROP OUT FUSES ARE WIDELY USED FOR SYSTEM PROTECTION AS A SECONDARY BACK-UP AGAINST FAULTS OR TROUBLES. INSTALLED AT HIGH-VOLTAGE SIDE, THEY ARE ABLE TO PROVIDE PROTECTION IN CASE THE TROUBLE IS PERSISTENT.

GUARANTEED TECHNICAL PARTICULARS FOR 11 KV DROP OUT FUSE



- **OPERATING VOLTAGE**
 - **MATERIAL OF SPRING**
 - **RATED FREQUENCY**
 - **INSULATION LEVELS**
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POLYMER INSULATORS

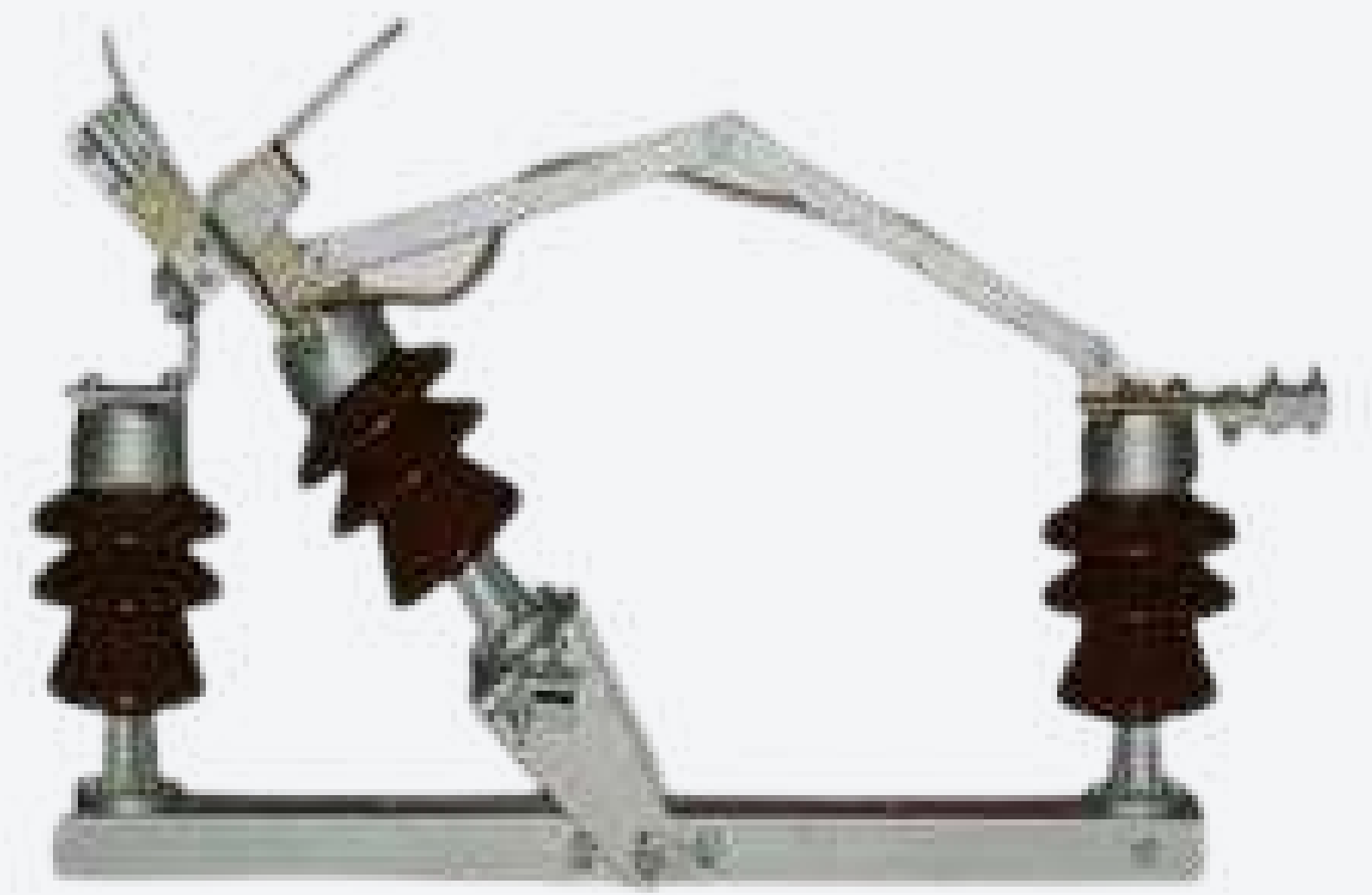
WE BELIEVE A THOROUGH TESTING OF COMPONENTS AND IN PROCESS CAN ENSURE THE QUALITY OF THIS NEW GENERATION PRODUCT TO GIVE SERVICE FOR YEARS TOGETHER. THE DIFFERENT TESTS ARE CARRIED OUT IN OUR LABORATORY.



MECHANICAL & PHYSICAL TESTS ON OUR SILICONE COMPOUND

- **TENSILE STRENGTH**
 - **ELONGATION AT BREAK**
 - **TEAR STRENGTH**
 - **HARDNESS**
 - **SPECIFIC GRAVITY**
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AIR BREAK ISOLATING SWITCHES



JAIPURIA BROTHERS ELECTRICALS PVT. LTD. MANUFACTURE GANG OPERATED AIR BREAK OFF LOAD, DISCONNECTING SWITCH WITH TRIPLE POLE. EACH POLE CONSISTS OF GALVANIZED STEEL BASE, H.T. INSULATORS AS PER B.S.S./I.S. NON-FERROUS KNIFE AND SPRING LOADED CONTACTS, ARCING HORNS OF ADEQUATE SECTION TO BREAK MAGNETIZING CURRENT OF THE TRANSFORMERS HORIZONTAL G.I. PIPE OF ADEQUATE LENGTH FOR PHASE SEPARATION, ADEQUATE LENGTH OF G.I. PIPES FOR OPERATION FROM GROUND LEVEL AND OPERATING HANDLE COMPLETE IN BOTH OFF AND ON POSITION. ALL FERROUS PARTS ARE HOT DIPPED GALVANIZED AND NON FERROUS PARTS ARE HEAVILY TINNED TO WITHSTAND EXTREME WEATHER. MANUFACTURED IN ACCORDANCE WITH I.S.S., THIS PRODUCT IS SUITABLE FOR HORIZONTAL VERTICAL MOUNTING.

EARTHING MATERIALS

OUR EARTHING MATERIALS AND EARTHING ACCESSORIES ARE CORRECTLY DESIGNED AND INSTALLED TO SAFEGUARD BOTH LIVES AND EQUIPMENT. THEY HAVE THE ABILITY TO TRANSFER CURRENT TO EARTH WITH EASE. SOME OF THE MAIN FEATURES OF OUR EARTHING MATERIALS INCLUDE-



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- **LOW ELECTRICAL RESISTANCE TO EARTH**
 - **GOOD CORROSION RESISTANCE**
 - **ABILITY TO CARRY THE REQUIRED CURRENT REPEATEDLY**
 - **A RELIABLE LIFE OF AT LEAST 30 YEARS**
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 - **QUALITY EARTH RODS ARE COMMONLY MADE FROM EITHER SOLID COPPER, STAINLESS STEEL OR COPPER BONDED STEEL. IT IS IDEAL DUE TO ITS COMBINATION OF STRENGTH, CORROSION RESISTANCE, AND COMPARATIVELY LOW COST.**
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POWER ALUMINIUM BOLTED TYPE CONNECTORS



EXTRA HIGH VOLTAGE CONNECTORS NEED TO MAINTAIN THEIR MECHANICAL STRENGTH ALONG-WITH CURRENT TRANSFER CAPABILITIES THAT IS REQUIRED BY STANDARD CONNECTORS. FABRICATED FROM ALUMINUM ALLOY CONFORMING TO LEADING REGULATORY STANDARDS, WE PROVIDE A SUPERIOR RANGE OF POWER CONNECTORS (BOLTED TYPE) FOR EXTRA HIGH VOLTAGE SUBSTATIONS. WE ALSO PROVIDE ALLIED CONNECTING PARTS IN SIZES AS PER REQUIREMENTS.

INTRODUCTION

JAIPURIA BROTHERS IS ONE OF THE LEADING MANUFACTURE OF POWER CONNECTORS FOR EXTRA HIGH VOLTAGE SUB-STATION. PRODUCTS ARE BEING MANUFACTURED UNDER THE KEEN, CONTROL OF TECHNICAL HANDS HAVING DEEP EXPERIENCE OF 35 YEARS IN THE FIELD JAIPURIA BROTHERS MOTO IS TO PROVIDE QUALITY PRODUCTS TO THE CUSTOMERS, IT IS MAINTAINED BY ADOPTING TEST LATEST TECHNIQUES OF MODERN ENGINEERING DESIGN, WORKMANSHIP AND RESULT OF OUR R & D WORK SIMULTANEOUSLY.

LIGHTNING ARRESTORS



OUR LIGHTNING ARRESTORS CAN HANDLE BIG SURGES, LIKE LIGHTNING, BY PASSING THEM HARMLESSLY TO GROUND. A LIGHTNING ROD ACTS AS A CONE OF PROTECTION THAT HAS A GROUND RADIUS APPROXIMATELY, EQUAL TO ITS HEIGHT ABOVE THE GROUND. LIGHTNING ARRESTORS UNITS WILL REDUCE PROBLEMS DUE TO LIGHTNING, POWER SURGES, AND SPIKE TO A GREAT EXTENT. THIS IS NOT A VERY EXPENSIVE PRODUCT BUT HIGHLY RECOMMENDED FOR EVERY CONSTRUCTION. IT ELIMINATES HUMAN AND PROPERTY LOSS.

WHY ONLY JAIPURIA BROTHER'S ELECTRICAL PVT. LTD. ARRESTORS?

- **CHARACTERISTICS OF METAL OXIDE RESISTORS IS SUCH THAT EXCELLENT SURGE PROTECTION IS OBTAINED, WHILE THE CURRENT PASSED AT CONTINUOUS OPERATING VOLTAGES IS OF APPROXIMATELY 1 MAP MAGNITUDE. THIS SMALL AND CONTINUOUS CURRENT IS PREDOMINANTLY CAPACITIVE AND PERFORMS A USEFUL VOLTAGES GRADING FUNCTION, WITH NEGLIGIBLE WATTAGE DISSIPATION.**
 - **JBEPL RANGE OF SURGE ARRESTORS CONSIST OF A STACK OF ZINC OXIDE DISCS ENCAPSULATED IN HEAT SHRINKABLE SLEEVE, ARRANGED IN A HERMETICALLY SEALED PORCELAIN HOUSING, A COMBINATION WHICH PROVIDES EXCELLENT PROTECTION CHARACTERISTICS AND TEMPORARY OVER VOLTAGE CAPABILITY.**
 - **RELIABILITY AND DURABILITY ARE GREATLY ENHANCED BY THE FACT THE JBEPL GAPLESS ARRESTORS HAVE NO FOLLOW CURRENT AND CONSTITUTE FEWER COMPONENTS. ALSO, CHANGE IN VOLTAGE DISTRIBUTION, OFTEN CAUSED BY THE CONTAMINATION OF PORCELAIN HOUSING, DOES NOT GIVE RISE TO ANY PROBLEMS.**
 - **POSSIBILITY OF FAILURE DUE TO MOISTURE INGRESS IS ELIMINATED THROUGH PROPER END SEALING.**
 - **DUE TO ITS COMPACT SIZE AND MINIMUM WEIGHT JEEPL ARRESTOR FACILITIES EASY TRANSPORTATION AND INSTALLATION.**
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RUBBER HAND GLOVES



WE DELIVER RUBBER INSULATING GLOVES THAT ARE AMONG THE MOST IMPORTANT ARTICLES OF PERSONAL PROTECTION FOR ELECTRICAL WORKERS. TO BE EFFECTIVE, OUR RUBBER HAND GLOVES INCORPORATE HIGH DIELECTRIC AND PHYSICAL STRENGTH, ALONG WITH FLEXIBILITY AND DURABILITY. FOR SUPERIOR PERFORMANCE THEY MEET THE REQUIREMENTS OF CURRENT INDUSTRIAL AND OCCUPATIONAL HEALTH & SAFETY SPECIFICATIONS. OUR RANGE OF GLOVES ARE IDEAL FOR WORKING IN DIFFERENT VOLTAGES. THE ELECTRICAL-PROTECTIVE RUBBER GLOVES ARE CATEGORIZED BY THE LEVEL OF VOLTAGE PROTECTION THEY PROVIDE.

POLYMERIC SURGE ARRESTERS



THE POLYMERIC SURGE ARRESTERS FOR DISTRIBUTION SYSTEM HAS BEEN DEVELOPED BY USING SILICONE RUBBER. THE NEW TYPE OF SILICON RUBBER WAS EXAMINED BY THE ACCELERATED WEATHERING TESTE AND APPLIED TO THE SHED MATERIAL OF THE POLYMERIC SURGE ARRESTER, THE TEST CONFIRMED THAT THE SILICONE RUBBER HAD AND EXCELLENT WEATHER RESISTANCE AND HIGH WATER REPELLENCY DURING THE LONG TERM WEATHERING TESTS, THE POLYMERIC SURGE ARRESTER WITH THE NEW TYPE OF SILICONE RUBBER SHOWED A HIGH PERFORMANCE AT THE PRESSURE RELIEF TESTS ACCORDING IEC60099-4(1991).

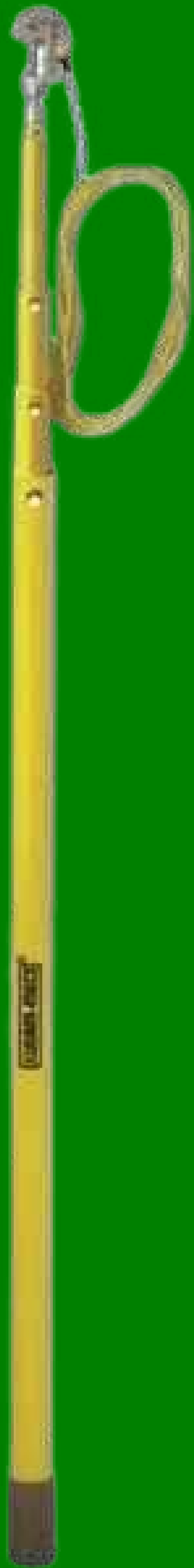
OUR PACKERS OFFERS WIDE RANGE OF SURGE ARRESTERS IN RATED VOLTAGE OF 9KV – 15KV WITH DISCHARGE CURRENTS RANGING FROM 5KA & 10KA AS PER IEC-60099-4.

SUB-STATION

EVER SINCE ESTABLISHMENT, WE HAVE SUPPLIED A WIDE RANGE OF TURN KEY SUBSTATIONS TO CLIENTS ALL OVER THE WORLD. QUALITY IS YOUR ASSURANCE AS OUR TURNKEY PROJECT TEAMS ARE ACCREDITED THROUGH THE INTERNATIONALLY RECOGNIZED QUALITY ASSURANCE STANDARDS. THE EXECUTION OF HIGH QUALITY MANAGEMENT AND ENGINEERING SYSTEMS ARE STRICTLY IMPLEMENTED IN ACCORDANCE WITH OUR INTERNAL PROJECT MANUAL STANDARDS. OUR IN-HOUSE PROCEDURES COVER THE FOLLOWING KEY MANAGEMENT PROCESSES:

- PROCUREMENT CONTROL**
 - DESIGN OF SUBSTATION SYSTEMS (LAYOUTS, SINGLE/SECONDARY LINE DIAGRAM, CONTROL AND PROTECTION SCHEMATICS)**
 - PROJECT SCHEDULE CONTROL**
 - SITE COORDINATION (CIVIL, INSTALLATION AND BUILDING SERVICE, ETC.) AND**
 - COMMISSIONING WORKS.**
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DISCHARGE 1 PHASE& 3 PHASE ROADS



SINGLE PHASE

SINGLE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH

DISCHARGE ROD 11-33KV

SINGLE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH

DISCHARGE ROD 66-132K

SINGLE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH

DISCHARGE ROD 33-66KV

SINGLE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH /

DISCHARGE ROD 132-220KV

SINGLE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH/

DISCHARGE ROD 11KV

SINGLE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH /

DISCHARGE ROD 220KV-400KV

THREE PHASE

THREE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH
DISCHARGE ROD 11 KV

THREE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH

DISCHARGE ROD 11-33KV

THREE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH
DISCHARGE ROD 33-66KV

THREE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH/

DISCHARGE ROD 66-132KV

THREE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH/
DISCHARGE ROD 132-220KV

THREE PHASE HIGHLY INSULATED FRP TELESCOPIC EARTH

DISCHARGE ROD 220KV-400KV

RUBBER MATTINGS



WE PROVIDE RUBBER MATTINGS FOR APPLICATION IN DIVERSE INDUSTRIAL AND COMMERCIAL APPLICATIONS. COMBINING SUPERIOR SURFACE TEXTURES, THESE RUBBER MATTINGS ARE DESIGNED TO PROVIDE COMFORT AT ALL TIMES. DESIGNED FOR EASY INSTALLATION ACROSS ANY SURFACE, THESE MATTINGS HAVE EXCELLENT RESISTANT CHARACTERISTICS AGAINST TOUGH WEATHER CONDITIONS AND ARE VIRTUALLY MAINTENANCE FREE.

ACSR CONDUCTORS & ACCESSORIES



ACSR (ALUMINUM CONDUCTOR STEEL REINFORCED) CONDUCTORS ARE COMPOSED OF MULTIPLE LAYERS OF ALUMINUM WIRE CONCENTRICALLY STRANDED WITH A COATED STEEL CORE OF HIGH STRENGTH. THE CORE CAN BE SINGLE WIRE OR MULTIPLE STRANDED AS PER THE REQUIREMENTS OF SIZE. THE VARIABLE NATURE OF THE STRANDING IN THE STEEL CORE ENABLES THE ACHIEVEMENT OF DESIRED STRENGTH WITHOUT COMPROMISING ON CAPACITY. ACSR OFFERS HIGH TENSILE STRENGTH FOR LINE DESIGN AND WITH A LIGHTWEIGHT STRUCTURE, ARE IDEAL FOR USE AS TRANSMISSION & DISTRIBUTION CABLES. WE PROVIDE ACSR CONDUCTORS AND ALUMINUM CONDUCTORS AND ALLIED ACCESSORIES THAT ARE IDEAL FOR DIVERSE APPLICATIONS.

ISOLATORS UPTILL 132 KV



HV SYSTEMS

ISOLATOR 66V/110K/220KV/400KV

Isolator is a manually operated mechanical switch which separates a part of the electrical power system normally at off load condition .

A complete live closed circuit must not to be opened by isolator operation and also a live circuit must not be closed and completed by isolator operation to avoid huge arcing in between isolator contact .That is why isolator must be open after circuit breakers is open and these must be closed before circuit breaker is closed isolator can be operated by hand locally as well as by motorized mechanism from remote position .

TYPES OF ISOLATOR



- **Double Break Isolator**
- **Center Break Isolator**
- **Pantograph Type Isolator**



SEC engineering sales a wide range of reliable and energy efficient disconnectors to meet the requirements of different sites and network conditions. The disconnectors range from 72.5 kV to 550 kV, the largest of its kind in India. It produces double break, center break, and pantograph isolators and maintenance earth switches up to 420 kV/3150 A.

TOP HAT		TOP HAT		ROUND STEEL		FLAT STEEL	
Model : #0002		Model : #0003		Model : #0004		Model : #0005	
Material : Fe		Material : Fe		Material : Fe		Material : Fe	
TOP	HAT	CABLE B RACKET		ANGLE	STEEL	TANK ST	EEL
Model : #0006		Model : #0007		Model : #0008		Model : #0009	
Material : Fe		Material : Fe		Material : Fe		Material : Fe	
CABLE	BRACKET	HEART-SH APED RING		GLASS IN SULATOR		PORCELAIN	NSULATOR
Model : #00010		Model : #00011		Model : LXY		Model : XP	
Material : Fe		Material : Fe		Material : Glass		Material : porcelain	
STEEL	IRE CARD	PULL THE WIRE ROD		COMPOSIT	E INSULATOR	DROP AR	RESTER
Model : JK		Model : LB		Model : EXBW		Model : YH	
Material : Fe		Material : Fe		Material : Silicone		Material : Silicone	
FLOWER	KED BOLTS	PULLIN G RING		SUSPESSION	TNING	SITTING	ING
BAS				LIGH	ARRESTER	LIGHTN	ARRESTER
Model : #00012		Model : LB		Model : YH		Model : YH	
Material : Fe		Material : Fe		Material : Silicone		Material : Silicone	
STEEL	STRAND	STEEL CORE ALUMINUM TWISTED WIRE		ALL-CERAMIC	S-BOND	LOW	E
				CROS	INSULATOR	VOLTAG	INSULATOR
Model : GJ		Model : LGJ(JA/G1A)		Model : S, SC		Model : PD, ED	
Material : Fe		Material : Fe+Al		Material : Porcelain		Material : Porcelain	



BALL HEAD HANGER		BOWL HEAD HANGER		CGU SUSPENSION CLAMP		XG SUSPENSION CLAMP	
Model: Q, QP		Model: W, WS		Model: XGU		Model: XG	
Material: Fe		Material: Fe		Material: Al		Material: Al	
EXTENDED RING		RIGHT ANGLE HANGING BOARD		UT WEDGE CLAMPS		WEDGE CLAMPS	
Model: PH		Model: Z, ZS		Model: NUT		Model: NX	
Material: Fe		Material: Fe		Material: Fe		Material: Fe	
TERMINALS		TERMINALS		NY STRAIN CLAMP		NLL STRAIN CLAMP	
Model: DTL		Model: DT		Model: NY		Model: NLL	
Material: Cu+Al		Material: Cu		Material: Al		Material: Fe	
TERMINALS		SPECIAL-SHAPED GROOVE CLAMP		NLD STRAIN CLAMP		U-SHAPED HANGING RING	
Model: DL		Model: JBL		Model: NLD		Model: U, UL	
Material: Al		Material: Cu+Al		Material: Fe		Material: Fe	
SPECIAL-SHAPED GROOVE CLAMP				CROSS-LODA		STRENGTHEN AT IRON HINGE	
Model: JBT		Model: JB-TL		Model: HD		Model: BG	
Material: Cu		Material: Fe		Material: Fe		Material: Fe	
CROOVING WIRE CLIP		CGU SUSPENSION CLAMP		U-SHAPE D HUG		CABLE B RACKET	
Model: JBB		Model: CGU		Model: U		Model: #0001	
Material: Fe		Material: Fe		Material: Fe		Material: Fe	

