

120+1



**IZOLYATOR**

Centuries-old traditions — state-of-the-art technologies

## REFERENCES



### Power Generation

Thermal, nuclear  
and hydro energy



### Power Transmission

Long distance, regional,  
municipal power lines



### Power Consumption

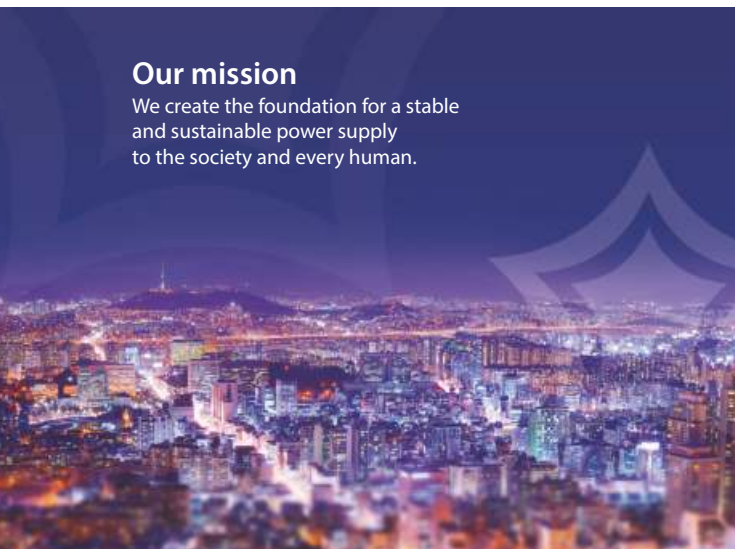
Industry, transportation,  
oil and gas

2018

# MISSION. VISION. SOCIAL RESPONSIBILITY.

## Our mission

We create the foundation for a stable and sustainable power supply to the society and every human.



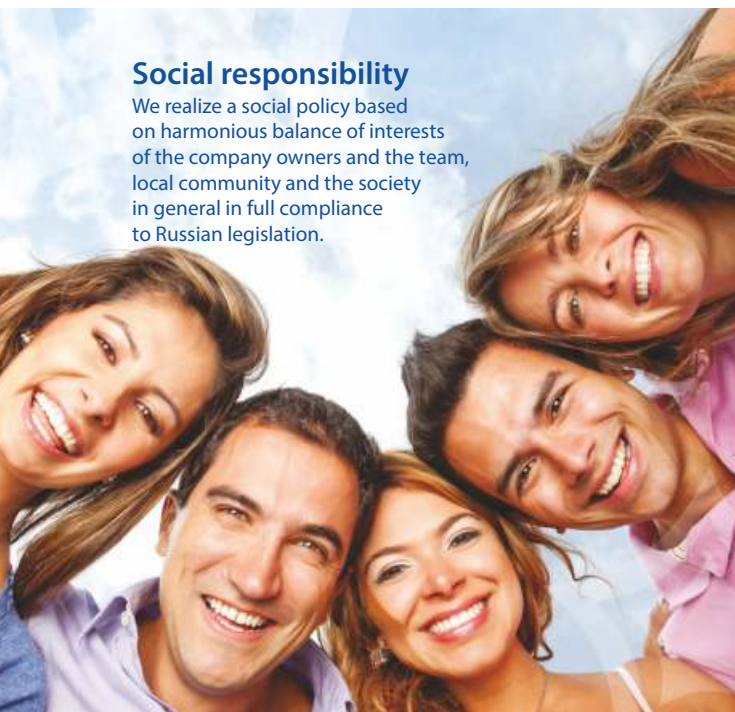
## Our Vision

We aim at being a global leader in development, manufacture and implementation of modern technologies in power industry.



## Social responsibility

We realize a social policy based on harmonious balance of interests of the company owners and the team, local community and the society in general in full compliance to Russian legislation.



The history of high-voltage bushings development in Russia is inseparably connected with Izolyator. In its more than a century-long history, the plant has produced more than 620 thnd HV bushings that are operating in the overwhelming majority of power facilities in Russia and the CIS countries as well as 30 more countries of the world.

All Izolyator achievements were only possible thanks to a well-coordinated work of our highly professional team and the all-round support of our partners. We will continue to make every effort in order to prove our clients' trust by timely fulfilling our obligations in high-voltage bushings production and technical support of our customers.

**"Century-long traditions, state-of-the-art technologies" — these words became a motto for those, who work at the plant, rightly believed a global leader in development and production of high-voltage bushings.**

Alexander Slavinsky,  
Chairman of the Board of Directors Izolyator  
Vice-President AES RF,  
Vice-President TRAVEK Association,  
Russia's Representative at CIGRE SC D1  
Doctor of Technical Science

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## FACTS AND ACHIEVEMENTS



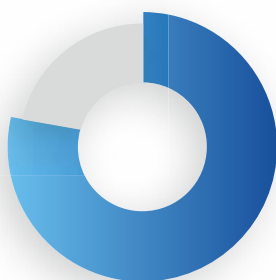
PRODUCTION  
CAPACITY



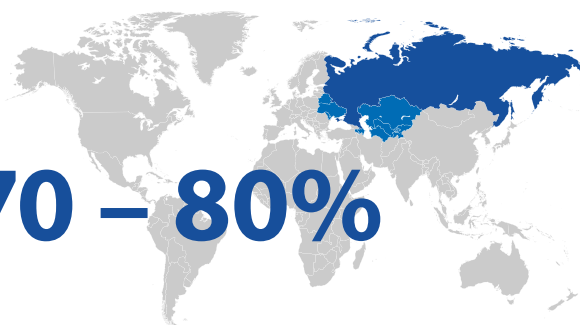
**12 000** BUSHINGS PER YEAR



MARKET SHARE  
IN RUSSIA AND CIS



**70 – 80%**



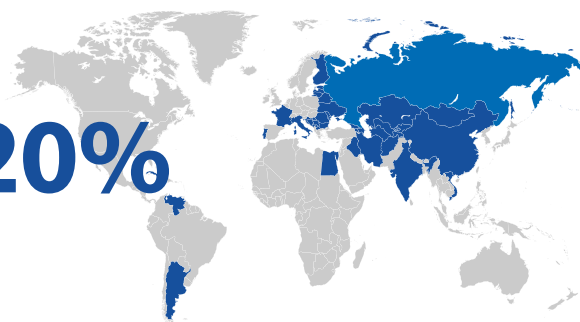
STAFF



EXPORT SHARE



**20%**



TRACK RECORD  
OF DELIVERIES  
ALL OVER THE WORLD



EXPORTS TO  
**30** COUNTRIES  
IN THE WORLD



# COMPANY STRUCTURE

## Special design bureau

- creation of new designs of high-voltage bushings
- development of new production technologies
- carrying out research activities and prototyping
- serial products upgrades and deep modification of existing bushing models



## Production

- the most technologically advanced equipment from the best OEMs
- patented technology of RIP insulation making
- patented technology of polymer external insulation making
- making the internal insulation up to 12 m long and 750 mm diameter



## Test center

- testing under alternating current, up to 1200 kV
- testing under direct current up to  $\pm 1600$  kV
- testing by full and chopped lightning impulse 1.2/50 ms
- testing by switching impulse 250/2500 ms
- testing of insulation materials and prototypes



## Service center SVN-Service

- high quality technical service
- diagnostics
- warranty and post-warranty repair of bushings
- consulting technical divisions of customers

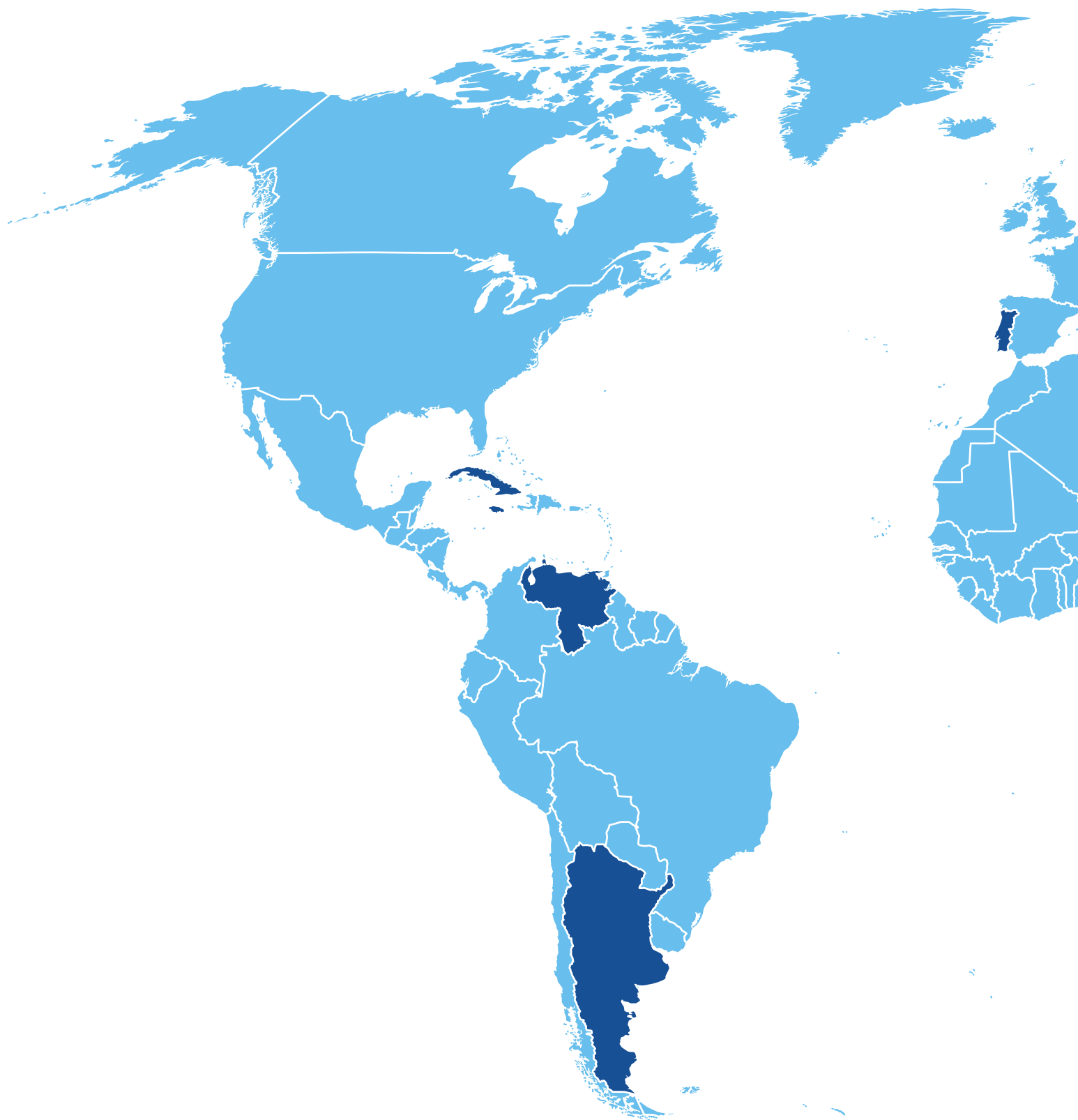


COMPLETE RANGE OF  
**SERVICES**



DESIGN PRODUCTION  
TESTING WARRANTY  
AND POST-WARRANTY  
SERVICE

## Geography of deliveries



Abkhazia



Belgium



Egypt



China



Azerbaijan



Belarus



India



Cuba



Argentina



Venezuela



Italy



Latvia



Armenia



Vietnam



Kazakhstan



Lithuania



Bulgaria



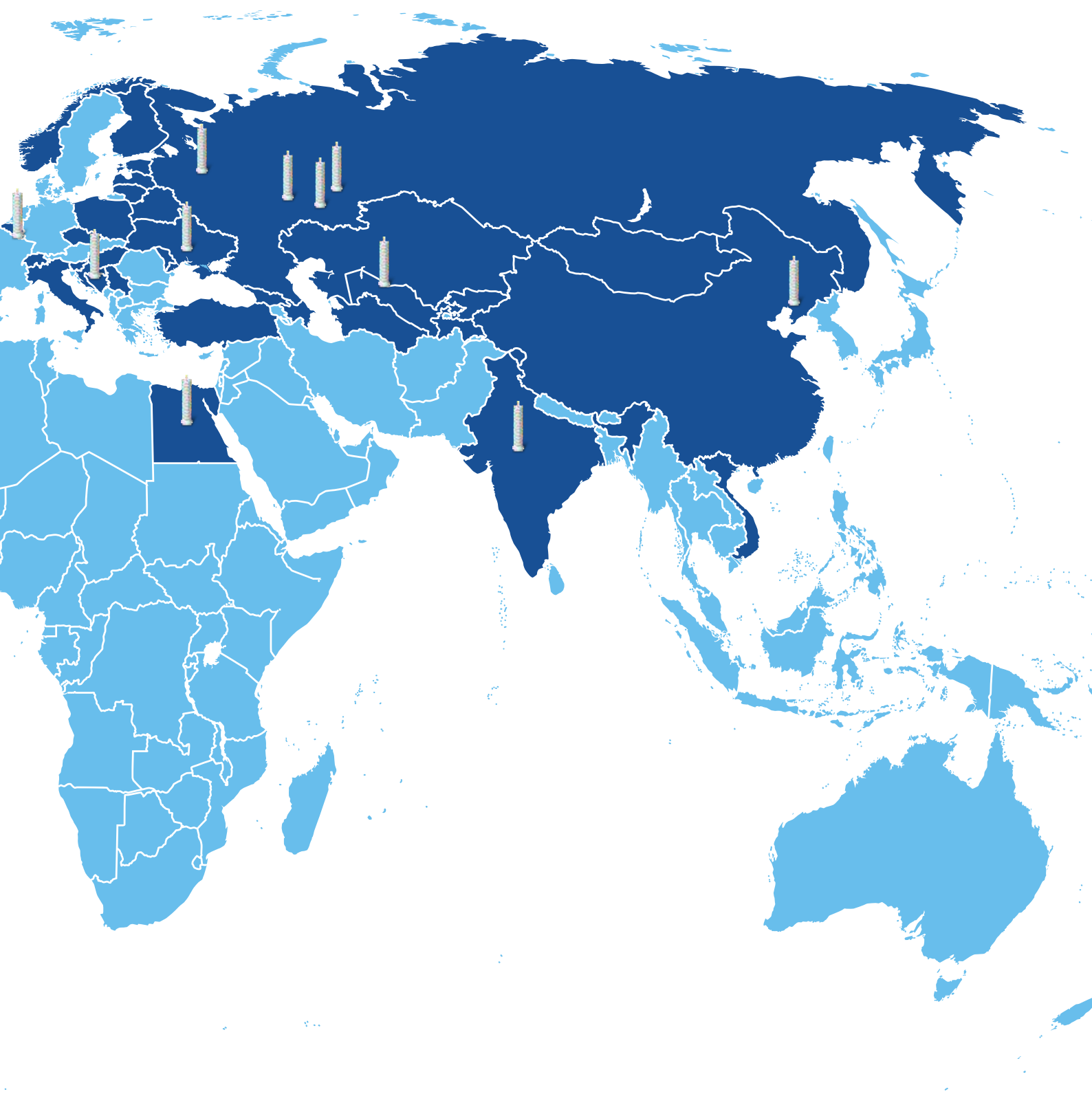
Georgia



Kyrgyzstan



Moldova



	Mongolia		Romania		Turkey		Estonia
	Norway		Slovenia		Uzbekistan		Switzerland
	Portugal		Slovakia		Ukraine		Czech Republic
	Poland		Tajikistan		Finland		
	Russia		Turkmenistan		Croatia		

We appreciate all our partners!  
Izolyator is official supplier of







# Power grid system in Russian Federation



Rosseti Public Joint Stock Company (Russian Grids) is a power grid operator in Russia and one of the largest grid companies in the world.



Rosseti is a holding company that manages subsidiaries and affiliated Interregional distribution grid companies (MRSK) and Federal Grid Company of Unified Energy System (FGC UES).



FGC UES Plc manages and develops the Unified national (all-Russia) power grid. The unified power system of Russia is a national asset and guarantee of energy security. FGC UES Plc is the largest in the world public grid company



MRSK – is a foundation of power distribution structure in Russia. MRSK competences include power supply to the public, large industrial consumers, transport, agriculture and social facilities including technological connection of consumers to power grids





## Rosseti Plc, certificate for GKT type bushings for 24–172 kV voltage range

№ 13-4/15

### Manufacturer/Applicant

Izolyator plant / Massa Ltd  
(Moscow Region, Pavlovskaya Sloboda)

### Equipment

High-voltage GKT bushings for high voltages from 24 to 172 kV, in O-type climatic execution, 1 application category compliant to TU 3493-001-31317133-2008 (except 27 kV GKT type bushings) Complies with Technical requirements and is recommended for application on subsidiaries and branches facilities of ROSSETI Plc (approved by attestation board on 14 January 2015 #13-4/15).

First Deputy General Director at  
Rosseti Plc  
**R.N. Berdnikov**



## Rosseti Plc, certificate for GK type bushings for 252–550 kV voltage range

№ 13-7/15

### Manufacturer/Applicant

Izolyator plant / Massa Ltd  
(Moscow Region, Pavlovskaya Sloboda)

### Equipment

High-voltage GK bushings for high voltages from 252 to 550 kV, in O-type climatic execution, 1 application category compliant to TU 3493-002-31317133-2008 Complies with Technical requirements and is recommended for application on subsidiaries and branches facilities of ROSSETI Plc (approved by attestation board on 14 January 2015 #13-7/15).

First Deputy General Director at  
Rosseti Plc  
**R.N. Berdnikov**



## Rosseti Plc, certificate for GKV type bushings for 40.5–252 kV voltage range

№ 13-6/15

### Manufacturer/Applicant

Izolyator plant / Massa Ltd  
(Moscow Region, Pavlovskaya Sloboda))

### Equipment

High-voltage GKV bushings for high voltages from 40.5 to 252 kV, in O-type climatic execution, 1 application category compliant to TU 3493-003-31317133-2008 Complies with Technical requirements and is recommended for application on subsidiaries and branches facilities of ROSSETI Plc (approved by attestation board on 14 January 2015 #13-6/15).

First Deputy General Director at  
Rosseti Plc  
**R.N. Berdnikov**



## Rosseti Plc, certificate for GKL type bushings for 72.5–252 kV voltage range

№ 13-5/15

### Manufacturer/Applicant

Izolyator plant / Massa Ltd  
(Moscow Region, Pavlovskaya Sloboda)

### Equipment

High-voltage GKL bushings for high voltages from 72.5 to 252 kV, in O-type climatic execution, 1 application category compliant to TU 3493-005-31317133-2009 Complies with Technical requirements and is recommended for application on subsidiaries and branches facilities of ROSSETI Plc (approved by attestation board on 14 January 2015 #13-5/15).

First Deputy General Director at  
Rosseti Plc  
**R.N. Berdnikov**



## FGC UES Reference letter on RIP-insulated bushings

On 3 July 2015, FGC UES JSC sent a reference letter to Indian PowerGrid Corporation of India Limited concerning Izolyator 550 and 800 kV RIP-insulated bushings that are operated in regional grids, branches of FGC UES. In the document, FGC UES confirms a high quality of Izolyator products and recommends the company as a reliable strategic partner.

Sincerely,  
V.P. Dikoi  
Deputy Chairman of the Board,  
Chief Engineer

<p><b>Федеральная Сетевая Компания</b></p>		<p>Единой Энергетической Системы</p>	<p>ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "ФСК ЕЭС" г. Москва, ул. Мясницкая, д. 10 e-mail: info@fsc.ru, info@fsc.ru www.fsc.ru, www.fsc.ru</p>
<p><u>03.07.2015</u>      <u>1975</u></p>			
<p><b>Атл. of Power Grid Corporation of India Ltd., Sandamini, Plot No.-2, Sector-29, Gurgaon-122001, Haryana, India Tel. +91-124-2571700-19 (Extn. 2348/3325 ); Fax.: +91-124-2571831</b></p>			
<p><b>TO WHOM IT MAY CONCERN</b></p> <p>Dear Gentlemen!</p> <p>In the course of many decades, from the moment of appearance of Electrical Power Sector in Russian Federation and up to the present day <b>Massa LLC – IZOLYATOR factory</b> remains our regular supplier of high-voltage bushings for the needs of our Company. Below herewith we are kindly informing You on the list of HV bushings, rated <b>500kV/315A, 500kV/1600A, 500kV/2500A, 800kV/315A</b>, with internal solid resin impregnated paper (RIP) insulation which have been developed, designed, manufactured, type tested, supplied, installed by Massa LLC at the facilities of subdivision companies of <b>JSC Federal Grid Company of Unified Energy System (JSC FGC UES): MES of Northwest, MES of Urals, MES of East, MES of Center, MES of Volga, MES of Siberia, MES of West Siberia, MES of South.</b></p>			

		2010	PL-26480 PL-26834 PL-27872 PL-29781 PL-31193	8
		2011	PL-32977 PL-33077 PL-34063 PL-34178 PL-23848 PL-24358 PL-25186 PL-31897	8
		2012	PL-35175 PL-42418	2
		2013	PL-54326 PL-43085 PL-53515 PL-53516 PL-54063 PL-55048 PL-55047 PL-53436 PL-48081 PL-46005 PL-48759	11
500kV/1800A (transformer)	WBEVE 586355 173	2011	PL-39616 PL-39738	4
		2012	PL-45051 PL-46008 PL-46654 PL-44684 PL-46212 PL-41336 PL-40586	7
		2013	PL-40271	1
500kV /2000A (transformer)	WBEVE 586354 001 WBEVE 586354 002 WBEVE 586355 172 WBEVE 586355 146-01	1999 2005 2005 2008	PL-44841 PL-42695 PL-06227 PL-10640 PL-12457 PL-13485 PL-18386 PL-18644 PL-08110 PL-13766 PL-12832 PL-12741	1 1 10
		2009	PL-19738 PL-19008 PL-19461	3
		2010	PL-24454 PL-25852 PL-12995	3
		2011	PL-13385 PL-59632 PL-40541 PL-40847 PL-52158 PL-22880 PL-24208	7
		2012	PL-42546 PL-40867 PL-42514 PL-41067 PL-41216 PL-42653 PL-41427 PL-38607 PL-43204 PL-41368 PL-41539	11
		2013	PL-54803 PL-54048 PL-54432 PL-54433 PL-51963 PL-48950 PL-52074 PL-52213 PL-48863 PL-43036 PL-52018 PL-50281	12
500kV/218A (for HVDC)	WBEVE 586305 185	2013	PL-52693 PL-52372	2

We confirm hereby the high quality of the supplied products by **Massa LLC**, as well as a complete compliance with the requirements of **IEC 60337 standard**, **GOST 10693 standard** and normative documents. All high-voltage bushings mentioned above have passed successfully all type and routine tests and are successfully operating up to the present time since their commissioning. There have not been occurred any problem with installation, commissioning and maintenance.

A successful experience in development of the partnership relations between **Massa LLC and JCS FGC UES** allows to recommend **Massa LLC - Izolyator factory** as a reliable partner for manufacturing and supplies of the bushings for high (110, 220, 330) and extra-high voltage levels (420, 550, 800 etc.).

JSC FGC UES confirms herewith that **Massa LLC - Isolator factory** is a strategic partner, wishing You prosperity and further innovative development of Energy Transmission and Distribution in Russia and Worldwide!

Yours sincerely,

Deputy Chairman of the Board –  
chief engineer

V.P. Dikoy

**FGC**

**UES**

## FGC UES Reference letter on oil impregnated paper insulated bushings

In the course of many decades from the moment of appearance of Electrical Power Sector in Russian Federation and up to the present day Massa LLC – Izolyator factory – remains our regular supplier of high-voltage bushings for the needs of our Company. Below herewith we are kindly informing You on the list of HV bushings, rated 500kV/315A, 500kV/1600A, 500kV/2500A, with internal solid resin impregnated paper (RIP) insulation which have been developed, designed, manufactured, type tested, supplied, installed by Massa LLC at the facilities of subdivision companies of JSC Federal Grid Company of Unified Energy System (JSC FGC UES): MES of North West, MES of Urals, MES of East, MES of Center, MES of Volga, MES of Siberia, MES of West Siberia, MES of South.

We confirm hereby the high quality of the supplied products by Massa LLC as well as complete compliance with the requirements of IEC 60137 standard, GOST 10693 standard and normative documents. All high-voltage bushings mentioned above have passed successfully all type and routine tests and are successfully operating up to the present time since their commissioning. There have not been occurred any problem with installation, commissioning and maintenance.

A successful experience in development of the partnership relations between Massa LLC and JSC FGC UES allows to recommend Massa LLC – Izolyator factory as a reliable partner for manufacturing and supplies of the bushings for high (110, 220, 330) and extra-high voltage levels (420, 550, etc.).

JSC FGC UES confirms herewith that Massa LLC – Izolyator factory is a strategical partner, wishing You prosperity and further innovative development of Energy Transmission and Distribution in Russia and Worldwide!

Yours sincerely,  
Deputy Chief Engineer of JSC FGC UES  
A.M. Epifanov

**Federal Grid Company** of Unified Energy System

11.06.2014 - 1A-2985

Alt. of  
Power Grid Corporation of  
India Ltd., Santarini, Plot No. 2,  
Sector-29, Gurgaon-123001,  
Haryana, India.  
Tel. +91-124-2871700-19 (Ext. 2346/2325); Fax: +91-124-2871821.

TO WHOM IT MAY CONCERN

Date: 18th June 2014

Dear Gentlemen!

In the course of many decades, from the moment of appearance of Electrical Power Sector in Russian Federation and up to the present day Massa LLC – IZOLYATOR factory remains our regular supplier of high-voltage bushings for the needs of our Company. Below herewith we are kindly informing You on the list of HV bushings, rated 500kV/315A, 500kV/1600A, 500kV/2500A, with internal solid resin impregnated paper (RIP) insulation which have been developed, designed, manufactured, type tested, supplied, installed by Massa LLC at the facilities of subdivision companies of JSC Federal Grid Company of Unified Energy System (JSC FGC UES): MES of Northwest, MES of Urals, MES of East, MES of Center, MES of Volga, MES of Siberia, MES of West Siberia, MES of South.

Type of Bushing	Factory drawing	Year of commissioning	Alt. of Factory, Russia	Qty.	Total Qty.
500kV/315A (for reactors)	ИВКЕ 686355.129	2009	И-21771 И-21881 И-19941 И-29497 И-21234 И-21273	6	
		2010	И-29489 И-29534 И-27972 И-25751 И-21108	5	
		2011	И-32977 И-32077 И-34093 И-34178 И-23848 И-24255 И-25186 И-31691	8	
500kV/1600A (transformer)		2011	И-30608 И-30738	4	
500kV/2500A (transformer)	ИВКЕ 686354.001 ИВКЕ 686354.002 ИВКЕ 686355.172	1999	И-45481	1	
		2005	И-45959	1	
		2006	И-06227 И-10840 И-12457 И-13488 И-15588 И-16544 И-08181 И-13764 И-12832 И-12741	10	
		2008	И-16738 И-16768 И-19481	3	
		2010	И-24454 И-26600 И-22900	3	
		2011	И-13280 И-30932 И-40061 И-40647 И-22158 И-22890 И-24228	7	

We confirm hereby the high quality of the supplied products by Massa LLC, as well as a complete compliance with the requirements of IEC 60137 standard, GOST 10693 standard and normative documents. All high-voltage bushings mentioned above have passed successfully all type and routine tests and are successfully operating up to the present time since their

commissioning. There have not been occurred any problem with installation, commissioning and maintenance.

A successful experience in development of the partnership relations between Massa LLC and JSC FGC UES allows to recommend Massa LLC – Izolyator factory as a reliable partner for manufacturing and supplies of the bushings for high (110, 220, 330) and extra-high voltage levels (420, 550, etc.).

JSC FGC UES confirms herewith that Massa LLC – Izolyator factory is a strategical partner, wishing You prosperity and further innovative development of Energy Transmission and Distribution in Russia and Worldwide!

Your sincerely,

Deputy Chief Engineer of JSC FGC UES

A.M. Epifanov

		2003	80112 4-80375 4-80400 4-77360 4-83182 4-77360 4-83152	2	
		2005	4-80586 4-83508 7-79602(90) 4-80833 4-83508	4	
		2006	4-84922 4-80111 4-80684 4-84822	3	
		2007	П-02466 П-02588 П-03062 П-07555 П-64495	5	
600kV / 2000-2500A (трансформатор)	ИВЕЮ 886344.028(-01-62) ИВЕЮ 886344.010(-01-62)	2003	П-01914	1	
		2003	4-82135 4-83183 4-83566 4-81323	4	
		2004	4-84042 4-89199	2	
		2005	4-82972 4-80660 4-89038 4-88822 4-89836 4-89981 4-89843 4-89860 4-80281 4-81213 4-88827 4-89848 4-89952	13	
		2006	4-94472 4-87053 4-87053 4-87055 4-88330 4-88599 4-99116 4-89146 4-99147 4-99332 4-89354 4-87758 4-97915 4-87916 4-88341 4-98659 4-88701 4-88858 4-98700 4-98833 4-94921 4-98488 4-98483 7-82289 7-73942 4-87760 4-87696 4-87758 4-89310 4-88340	30	
		2007	П-00955 П-03018 П-01935 П-00517 4-89789 П-01913 П-02485	7	
		2008	П-13156 П-12632 П-02467 П-13381 П-13727 П-13662 П-10849 П-12467	8	
		2009	П-10264 4-88843	2	
		2011	П-13340	1	69
230kV / 315A (реактор) -1000A (трансформатор)	2ВКЗ 800 021 2ВКЗ 800 072 ИВЕУ 886345.004 ИВЕУ 886345.005	2002	С-87927 6-03757	2	
		2003	4-72041 7-53008	2	
		2004	4-81800 4-84582	2	
		2005	4-79360 4-85378	2	
		2006	4-85475 4-87480 4-82085	3	
		2010	4-94079	1	12
1150kV / 1250A (трансформатор)	2ВКЗ 800 119	2000	4-64587 4-65231	2	
		2001	4-78070	1	
		2003	4-76581	1	
		2008	4-88135	1	6

Настоящим подтверждаем высокое качество поставленной продукции ООО «Магас», в полном соответствии с требованиями стандарта МЭК 66137, ГОСТ 18693 и нормативным документам. Все вышеуказанные высоковольтные вводы прошли все испытания, и успешно эксплуатируются по настоящее время с момента их ввода в эксплуатацию. Проблем с установкой, введением в эксплуатацию и обслуживанием не возникало.

Успешный опыт развития партнерских отношений между ООО «МАГАС» и ОАО «ФСК ЕЭС» позволяет рекомендовать ООО «Магас» - завод «ИЗОЛЯТОР», как

надлежащего партнера по производству и поставке высоковольтных вводов на вышке (110, 220, 330кВ) и сверхвысокого класса напряжения (420, 550кВ и выше).

ОАО «ФСК ЕЭС» подтверждает, что ООО «Магас» - завод «ИЗОЛЯТОР» является стратегическим партнером, желает Вам дальнейшего процветания и экономического роста в целях развития Перехода Распределения энергии на территории Российской Федерации и других стран мира!

С Уважением,

Заместитель главного инженера ОАО «ФСК ЕЭС»  
Евгений




1150 kV Izolyator bushing on a 300 MVar shunt reactor.  
Itatskaya substation at Krasnoyarsk branch in MES Siberia of FGC UES JSC



**FGC**

**UES**

### Thank-you letter of FGC UES

Hereby, I wish to express gratitude for Massa Ltd - Izolyator for the organization of workshop in the frame of Interregional Contests of 220 - 1150 kV substation technical maintenance staff in the city of Zheleznovodsk.

I am confident that the successful experience of our joint activities will strengthen our well-established business relations and ensure our further mutually beneficial cooperation.

With wishes of successful development,

Deputy Chief Engineer  
A. N. Zhukov



Izolyator's master class during Interregional FGC UES technical staff contest on technical maintenance of 220–1150 kV substation equipment



**FGC**

**UES**

**Main Power Transition lines of Western Siberia (MES West Siberia)** is a branch of FGC UES operating on the territory of Ural Federal District. 3 federal states with 3.5 mln population enter the service area of the company



24.10.2013 12:08 777343

Федеральная  
Сетевая Компания

Единой  
Энергетической Системы

24.10.2013

№ 16/18/126

Председатель Совета директоров  
ООО «Масса»  
А.З. Сивинскому

Оботранные копии

Уважаемый Александр Эпикович!

В рамках договорных договоров поставки № 26-12/п от 20.04.2012, 53-13/п от 20.06.2012 и 65-13/п от 17.09.2013 ООО «Масса» было привлечено для выполнения поставок высоковольтных изделий в рамках программы ТОиР и комплектации аварийного резерва филиала ОАО «ФСК ЕЭС» - МЭС Западной Сибири.

В соответствии с договором на 24.10.2013 была осуществлена поставка 18 трансформаторов и высоковольтных выводов классом напряжения 110-330 кВ.

Все поставки были осуществлены в кратчайшие сроки, качество поставленной продукции ООО «Масса» (Завод «Изольтор») соответствует требованиям и обладает положительным заключением испытательной комиссии ОАО «ФСК ЕЭС».

За время сотрудничества ООО «Масса» зарекомендовало себя как надежный партнер.

Заместитель главного инженера,  
Директор по организации эксплуатации  
основного оборудования

М.А. Бизяев

Красноярск  
(3463) 77 73 79

Всего № 16/18/126

10.10.2013

## MES West Siberia Reference letter

Our company contracted Massa Ltd under long term agreements #26-12/p dated 20 April 2012, #53-13/p dated 20 June 2013 and #65-13/p dated 17 September 2013 for high-voltage bushings supply for our maintenance program and the emergency reserve of the FGC UES – MES West Siberia branch.

In accordance with the agreement of 24 October 2013 we received 18 transformer and circuit-breaker bushings of 110–330 kV class.

All shipments were received within the shortest period of time. Massa Ltd (Izolyator plant) products meet our quality requirements and have been certified by FGC UES.

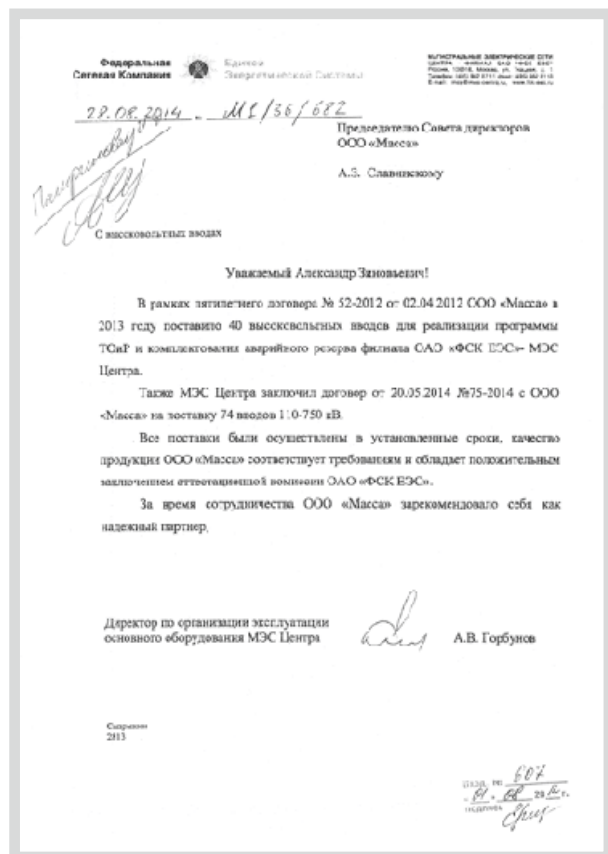
Massa Ltd has proved a reliable partner throughout our cooperation.

Deputy Chief Engineer  
Director of main equipment  
operation and maintenance  
**A.M. Bizyaev**

**FGC**

**UES**

**Main Power Transmission Lines of Center (MES Center)** is a branch of FGC UES operating in Central, North-Western and Southern federal states. There are 19 federal subjects of Russian Federation with over 40 mln population in the service area of the branch.



## Reference Letter of MES Center

Under the five-year contract #52-2012 dated 2 April 2012 Massa Ltd supplied 40 HV bushings for the maintenance and replacement program in 2013 and emergency reserves replenishment of the branch of FGC UES – MES Center.

MES Center also contracted Massa Ltd (agreement #75-2014 dated 20 May 2014) for delivery of 74 bushings of 110-750 kV voltage classes.

All shipments met delivery time; the product quality meets our requirements and has been certified by FGC UES.

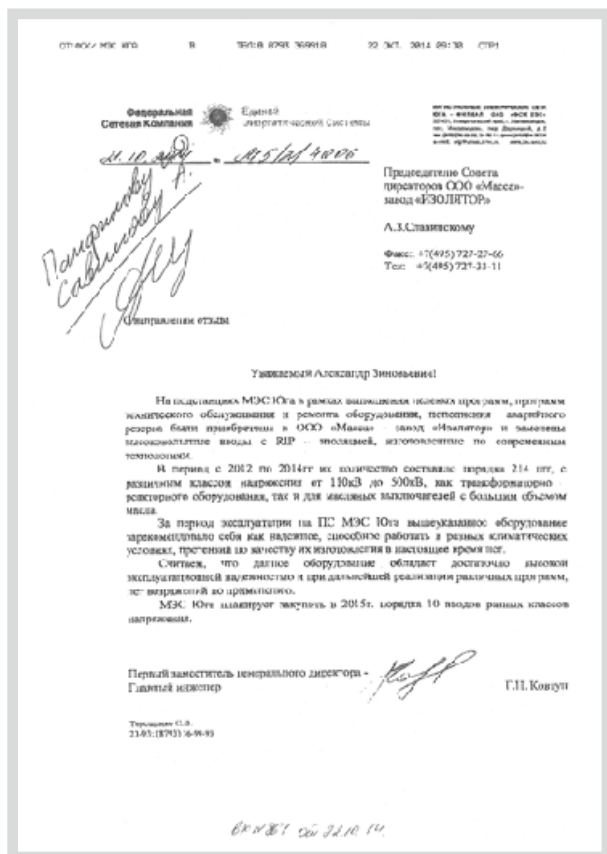
Massa Ltd has proved a reliable partner throughout our cooperation.

Director of main equipment  
operation and maintenance  
MES Center  
**A.V. Gorbunov**



### Main Power Transmission Lines of South (MES South)

is a branch of FGC UES operating in Southern and North Caucasus federal states. There are 11 subjects of Russian Federation with over 19 mln population in the service area of the branch.



## Reference Letter of MES South

MES South has purchased Izolyator's (Mass ltd) modern technology HV bushings with RIP insulation for implementation of our maintenance and replacement programs and emergency reserves replenishment.

From 2012 to 2014 our purchase volumes totaled 214 pcs in various voltage classes within 110–500 kV intended for transformer/ reactor equipment and oil switches with large oil volumes.

During operation time at PS MES South the above listed equipment proved reliable and able to perform in varying climatic conditions. We have no quality claims to this date.

This equipment has a high operational reliability and we see no obstacles for using it in our programs in future. MES South expects to purchase 10 bushings of various voltage classes in 2015.

1 Deputy General Director  
Chief Engineer  
**G.N. Kovtun**

**FGC**

**UES**

**Main Power Transmission Lines of North-West (MES North-West)** is a branch of FGC UES operating in North Western federal state.

There are 11 federal subjects of Russian Federation with over 14 mln population in the service area of the branch.



### Reference Letter of MES North-West

Under the long-term contract #1930/c dated 20 March 2012 Massa Ltd supplied HV bushings for the maintenance and replacement program and emergency reserves replenishment to the branch of FGC UES – MES North-West.

By 18 October 2013, in accordance with the agreement the supplier delivered 129 transformer/switch bushings of 110–330 kV voltage classes.

All shipments met strict delivery deadlines; Massa Ltd (Izolyator plant) products quality corresponds our requirements and has been certified by FGC UES.

Massa Ltd has proved a reliable partner throughout our cooperation.

Deputy General Director on  
Economy and Finance  
**O.E. Shakirov**





There are 3 technical centers and 22 ETL areas within the structure of **Kuzbassenergo-RES, branch of MRSK Siberia JSC**. They ensure power supply to almost 3 million people on the territory of 96.5 square kilometers.



Открытое  
Акционерное  
Общество

Межрегиональная  
распределительная сеть  
компания Сибири

Филиал «Кузбассэнерго -  
региональные электрические сети»  
22.02.2013 14/02-2/1033

На № \_\_\_\_\_ От \_\_\_\_\_

Генеральному директору  
ЗАО «ИБЭ»  
К.А. Руденко  
ул. Заводская, д.1  
г. Южноуральск, 457040

О качестве высоковольтных вводов

Уважаемый Константин Александрович!

В ответ на Ваше письмо от 07.02.2013 № 073 «О качестве поставленной продукции» сообщаем, что в 2011-2012 гг. филиал ОАО «МРСК Сибири» - «Кузбассэнерго-РЭС» приобрел у ЗАО «Новашин и бизнес в энергетике» высоковольтные вводы производства ООО «Масса»:

- ввод ГКВШ-60-126/2000 О1 (ИВУЕ.686352.132) – 4 шт.
- ввод ГКТШ-60-126/800 О1 (ИВУЕ.686352.103) – 3 шт.

Претензий по качеству вышеуказанной продукции нет.

Заместитель генерального директора-  
директор филиала

 А.Ю. Гринь

Николаев В.В.  
(3842) 39-01-61

### Reference Letter of Kuzbassenergo-RES

In reply to your letter #073 of 7 February 2013 concerning feedback on product quality please be informed that Kuzbassenergo-RES purchased Massa Ltd-made HV bushings from Innovations and Business in Power Industry CJSC:

- GKVIII-60-126/2000 01 (IVUE.686352.132) bushing – 4 pcs
- GKTIII-60-126/800 01 (IVUE.686352.103) bushing – 3 pcs

We have no quality claims on the above mentioned equipment.

Deputy General Director – Branch  
Director  
**A.Yu. Grin**



Today **Krasnoyarskenergo**, branch of **MRSK Siberia JSC**, is the largest regional grid company in Siberia. The company services territory of one of the largest federal subjects of Russian Federation – Krasnoyarsky kray with 2 339.7 thousand square kilometers (1/7 of Russia) area and 3 mln population.



### Reference Letter of Krasnoyarskenergo


Herewith we inform that since 2011 Krasnoyarskenergo, branch of MRSK Siberia JSC, has purchased and put into operation 118 HV bushings of Massa Ltd production, among those:

- Switch type bushings up to 35kV – 42 pcs
- Transformer type bushings 110kV – 38 pcs
- Switch type bushings 110 kV – 29 pcs
- Line bushings 110 kV – 9 pcs

There are no quality claims on our side in the present moment

Deputy Logistics and Procurement  
Director  
**A.A. Ransky**

Открытое  
Акционерное  
Общество



**Федеральная  
распределительная сетевая  
компания Сибири**

Филиал «Красноярскэнерго»  
660071, Партизанский район, Партизанский край  
г. Красноярск, ул. Богдана, д. 14АА  
Тел. 8 (391) 154-81-88, факс 8 (391) 254-66-77  
kran@idc.sib.net.ru

**Филиал «Красноярскэнерго»**  
31.01.2012 № 10/38/1258-408

на № \_\_\_\_\_ от \_\_\_\_\_


Генеральному директору  
ЗАО «Новация Бизнес в  
энергетике»  
КА Руденю

О предоставлении информации

Уважаемый Константин Александрович!

Настоящим сообщаем, что начиная с 2011 года филиалом ОАО «МРСК  
Сибирь» – «Красноярскэнерго» было куплено и введено в эксплуатацию  
вводов производства ООО «Масса» в количестве 118 шт., из них  
выключательные до 33 кВ в количестве 42 шт., трансформаторные 110 кВ в  
количестве 38 шт., выключательные 110 кВ в количестве 29 шт. и линейные  
110 кВ в количестве 9 шт.  
До настоящего времени претензий по данной продукции нет.

Заместитель начальника  
департамента логистики и МТО

 А.А. Ранский

Прислать 03.01.12  
(040) 70.37.71+моб. 748

№ 025416



**Altaienergo** – branch of MRSK Siberia Plc is a regional power company that ensures power supply in Altai Region and the Republic of Altai. Altai power system is almost 800 MW of power and 3500 Gcal of thermal capacity, about 70 000 km ETLs of all voltage classes (one of the lengthiest in Russia).



### Reference Letter of Altaienergo

Herewith please be informed that Altaienergo, branch of MRSK Siberia JSC, purchased 127 Massa Ltd-made high-voltage bushings from Innovations and Business in Power Industry CJSC within 2011–2012:

We have not registered equipment failure or any quality claims on the equipment as of today.

Head of Logistics and Procurement  
Division  
**O.V. Tubolet**

Открытое Акционерное Общество  
Всероссийская распределительная сетевая компания Сибири  
Филиал «Алтайэнерго»  
67 62 181 по 67 62 998-1004

Филиал ОАО «МРСК Сибири» - «Алтайэнерго»  
650002, Российская Федерация, Алтайский край,  
г. Барнаул, ул. П.С. Мушкетера, д.15  
тел.: 8 (3852) 56-43-50, факс: 8 (3852) 56-09-28

Генеральному директору  
ЗАО «Иновации и бизнес в энергетике»  
К.А. Руденю  
ул. Заводская, д. 1, г. Южноуральск,  
Челябинская обл., 457040

Отзыв о качестве  
продукции

Уважаемый Константин Александрович!

Настоящим сообщаем, что филиалом ОАО «МРСК Сибири» - «Алтайэнерго» в период с 2011 г. по 2012 г. закуплено у ЗАО «Иновации и бизнес в энергетике» высоковольтных выводов производства ООО «Масса» в количестве 127 штук. Претензий по качеству не выковано, отказов продукции не зарегистрировано.

Начальник ДЛ и МТО

О.В. Туболец

Копия Е.Н.  
(3852) 56-42-64

000330



**MRSK Center and Privolzhye JSC** is one of Russia's largest Interregional distribution grid companies – a natural monopoly with pricing regulated by Federal Tariff Service and local Regulatory Bodies.



### Reference letter of MRSK Center and Privolzhye JSC

Massa Ltd has been a regular supplier of 35–110 kV bushings to the branches of MRSK Center and Privolzhye in a number of years.

The products delivered by the plant of Massa Ltd are of invariably high quality and meet modern standards and requirements of normative and technical documentation having passed all necessary testing and certification.

Deputy Chief Engineer on  
Maintenance  
**V.A. Gorev**





**INTERREGIONAL  
DISTRIBUTION  
GRID COMPANY  
OF THE NORTH-WEST**

**MRSK North West** manages distribution complex of seven territories of the North Western Federal District of Russia: Republic of Karelia, Republic of Komi, Arkhangelsk region, Vologda region, Murmansk region, Novgorod region, Pskov region.






### Reference Letter of MRSK North West

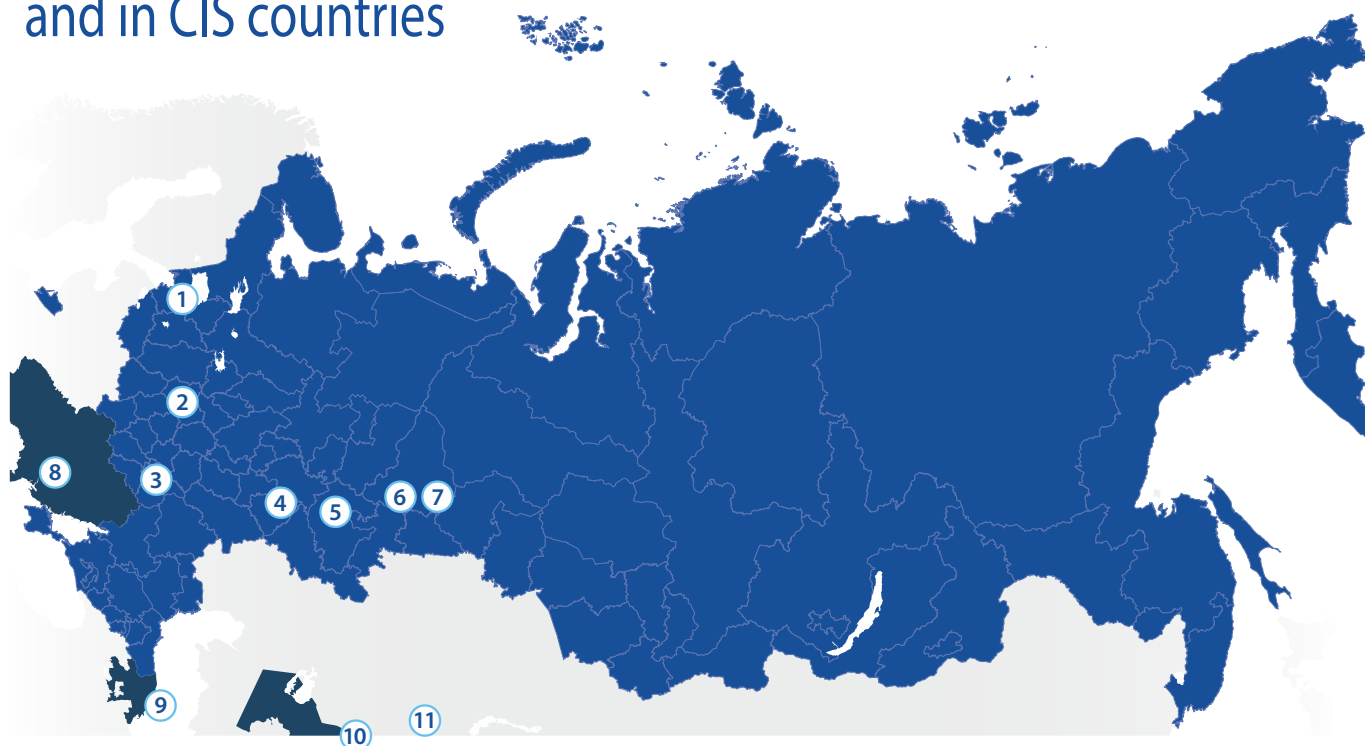
In response to Your letter ref. No. 01/312 of 08.11.2013, I inform You that disturbances in work of MRSK of North-West equipment during St. Jude storm in October of 2013 were not accompanied by damage of the bushings. There is no necessity in free supply of Your products, i.e. high-voltage bushings.

I'd like to express our gratitude for Your help in work aimed to eliminate disturbances caused by adverse weather condition in October of 2013.

Deputy General Director for  
technical matters, Chief Engineer  
**A.Yu. Gorokhov**

		ОФИС ИНТЕРРЕГИОНАЛЬНАЯ РАСПРЕДЕЛИТЕЛЬНАЯ СЕТЬ КОМПАНИИ «СЕВЕР-ЗАПАД» <b>ОАО «РСК СЕВЕР-ЗАПАД»</b> Юридический адрес: 143581, Московская область, Истринский район, с. Павловская Слобода, ул. Ленина, 17, ООО «Масса» Контакт: 727-3311, 812 287603, факс: 727-2766 E-mail: <a href="mailto:rosseti@rosseti.ru">rosseti@rosseti.ru</a> <a href="http://www.rosseti.ru">www.rosseti.ru</a>
На № _____ от _____ 2013 г. О предоставлении безвозмездной поставки продукции ООО «Масса»		
Уважаемый Александр Заволокин! <p>В ответ на Ваше письмо от 08.11.2013 № 01/312 сообщаем, что при имеющихся местах нарушениях в работе оборудования МРСК «Северо-Запада», при прохождении урагана «Святая Иуда» в октябре 2013 года, повреждения вводов не выявлено. В безвозмездной поставке Вашей продукции - высоковольтных вводов необходимости нет.</p> <p>Выражаем Вам свою благодарность за оказанную поддержку в работе по устранению нарушений, вызванных неблагоприятными погодными условиями в октябре 2013 года.</p> <p>Заместитель генерального директора по техническим вопросам - главный инженер  А.Ю. Горохов</p> <p>Копию ИЛС. (8 21295-1010 доб.289.</p> <p>Подпись _____ _____ подпись</p>		

# Transformer-building plants and other consumers in Russia and in CIS countries



- ① **Power Machines – Toshiba.**  
High-voltage transformers Ltd.  
(Saint Petersburg, Russia)



- ② **Manufacturing plant of Electrozavod JSC**  
(Moscow, Russia)



- ③ **Siemens Transformers Ltd.**  
(Voronezh, Russia)



- ④ **Togliatti Transformer**  
(Togliatti, Russia)



- ⑤ **Ufa Transformer Plant, Electrozavod JSC**  
(Ufa, Russia)



- ⑥ **Uralelectrotyazhmash**  
(Ekaterinburg, Russia)



- ⑦ **SVEL – Power Transformers plant, SVEL Group**  
(Ekaterinburg, Russia)



- ⑧ **Zaporozhtransformer Plc**  
(Zaporozhye, Ukraine)



- ⑨ **ATEF Group of companies**  
(Baku, Azerbaijan)



- ⑩ **Chirchiq transformer plant JSC**  
(Tashkent, Uzbekistan)



- ⑪ **Kentau transformer plant JSC**  
(Kentau, Kazakhstan)



**Uralelectrotyazhmash (UETM)** is the biggest Russian developer and producer of electric power equipment for generation, transmission, distribution and consumption of energy. High-voltage equipment, transformers and reactors, converter equipment and electric machines of UETM brand are world known and enjoy a good reputation.

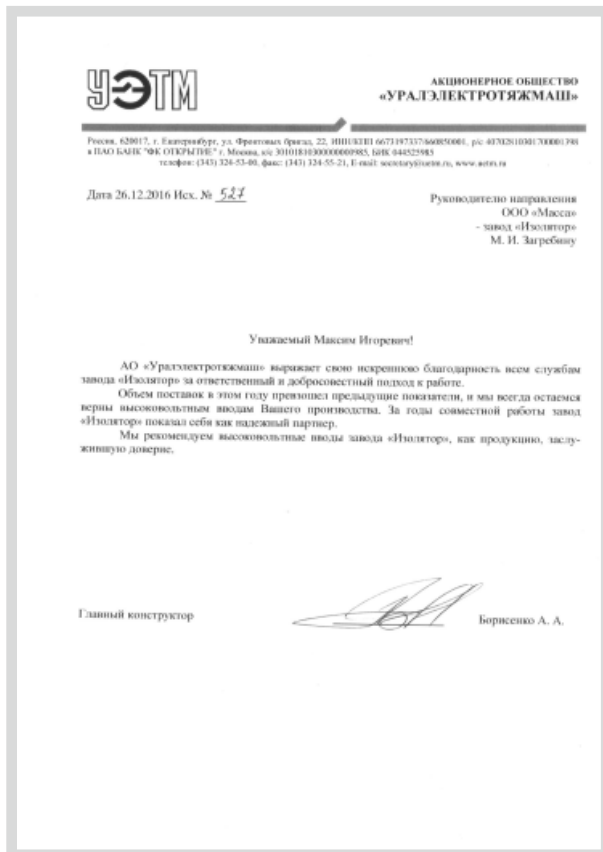
### Reference letter of Uralelectrotyazhmash

Uralelectrotyazhmash JSC would like to express a sincere gratitude for all divisions of Izolyator plant for a responsible and conscientious approach to work.

This year's delivery volume has surpassed the figures of the previous years. We stick by high-voltage bushings of your brand. Over the years of cooperation, Izolyator has proved a reliable partner.

We recommend Izolyator high-voltage bushings as products that have won trust from our company.

Chief Designer  
**A. A. Borisenko**





Direction of «SVEL RosEnergTrans» Plant (that has been manufacturing dry-type transformers and current limiting reactors since 2003) at the end of 2008 created the Management Group «SverdlovElectro» (common brand «SVEL» Group).

## Reference letters

Group SVEL CJSC thanks Massa Ltd for a positive cooperation experience concerning supply of high quality transformer bushings.

All Izolyator products met technical characteristics of the manufacturer's certificate of quality and came without defects. We confirm the smooth running of the commissioned facilities.

Within cooperation timeframe, our partners have promptly coordinated any issues concerning technical features, contract specifications, which proves a high professionalism of Massa Ltd team.

We sincerely hope to develop our cooperation and see our equipment production volumes grow.

General Director of HC of Group SVEL CJSC  
A. Yu. Kishko

Группа СverdlovЭлектро

**СВЕЛ** 620110, Екатеринбург, ул. Чернышевского д. 61  
Тел./факс: +7 (350) 253-50-17 (20)

Специальный трансформаторы

WWW.SVEL.RU 800-907-2000

№: 2206-15-238	Кому: ООО «Масса» - филиал «ВЭОЭНТОР»
Дата: 18.08.2013 г.	Кому: Техническому Совету директоров
Тема: Благодарственное письмо	А. Я. Савиновскому

Уважаемый Александр Александрович!

ЗАО «Группа «СВЕЛ» благодарит ООО «Масса» за плодотворный опыт сотрудничества в части поставки высококачественных трансформаторных выводов.

Все поставленные продукции полностью соответствуют «ГОСТ 31370», имеют документально подтвержденные технические характеристики (система качества и не имеет дефектов, повреждений и расхождений с заводскими инструкциями, образцы продукции).

За время нашего длительного сотрудничества вопросы по согласованию технических характеристик, спецификаций и контролю качества продукции, возникавшие на высшем профессиональном уровне ООО «Масса».

Надеемся на дальнейшее развитие сотрудничества и расширение объема выпуска продукции.

Генеральный директор ЗАО «Группа «СВЕЛ» А.Ю. Киско

Исполнитель:  
Директор по продажам  
620110, Екатеринбург  
E-mail: lsh@sveld.ru

For several years, ООО Massa is a regular supplier of high-voltage bushings for ООО SVEL – Power Transformers.

The products supplied by Your company always have high quality, comply with requirements of GOST, international standards and specifications.

We don't have any complaints regarding delivery terms, configuration and quality of high-voltage bushings made by Your company.

Head of material and equipment procurement department.

Head of material and equipment procurement department  
S. A. Skorinov

Группа СverdlovЭлектро

**СВЕЛ** 620110, Екатеринбург, ул. Чернышевского д. 61  
Тел./факс: +7 (350) 253-50-17

www.svel.ru 800-907-2000

№: 2206-13-238	Кому: ООО «Масса»
Дата: 12.11.2013	Кому: Первому зам. генерального директора
Тема: Отзыв о продукции	Благодарственному директору И.А. Захарову
	Факс: (495) 727-33-11

Уважаемый Иван Дмитриевич!

ООО «Масса» уже на протяжении нескольких лет является постоянным поставщиком высококачественных выводов в адрес ЗАО «СВЕЛ-Силовые трансформаторы».

Поставленная продукция Вашего производства неизменно высокого качества, соответствует требованиям ГОСТ, международных стандартов и ТУ.

Претензий по срокам поставки, комплектации, качеству поставляемых выводов Вашего производства не имеем.

Начальник СЗ МТ Скорин С.А.

Исполнитель:  
Директор по продажам  
620110, Екатеринбург  
Телефон 253-50-14 (доб. 217)  
E-mail: lsh@sveld.ru





**Togliatti Transformer Limited** is one of the largest designers and makers of electric engineering equipment in Russia and the CIS countries. As of today, the company's main business is high-voltage power transformers production.

## Reference Letter of Togliatti Transformer

Togliatti Transformer Ltd would like to thank Massa Ltd - Izolyator for the fruitful cooperation and confirms the high quality of high-voltage bushings made by Massa Ltd as well as their full conformity to all the technical requirements.

The successful experience of partner relations development between our companies allows us to recommend Massa Ltd as a reliable partner, manufacturer and supplier of high-voltage bushings.

We express our sincere gratitude for you personally and for all Izolyator plant divisions for an efficient and prompt service.

1 Dpty General Director  
Commercial Director  
**A. V. Roslyakov**

**ТОЛЬЯТТИНСКИЙ ТРАНСФОРМАТОР**

Дата: 22.02.16 № 44631-01/663

ООО "ТОЛЬЯТТИНСКИЙ ТРАНСФОРМАТОР"  
40601, Россия, г.Тольятти, Самарской обл., Ижестроительный, 1  
Т.о.а.: (007) (8482) 75-98-09, 75-98-10  
Факс: (007) (8482) 75-93-00, 75-98-11  
ОКПО 13353815 ОГРН 1036301104069  
ИНН 6320072765 КПП 631850001  
E-mail: tt@ttransformator.com.ru  
www.ttransformator.com.ru

Председателю  
Совета директоров ООО «Масса»  
Славинскому А.З.

Уважаемый Александр Зинovieвич!

ООО «Тольяттинский Трансформатор» благодарит ООО «Масса» - завод «Изолятор» за плодотворное взаимовыгодное сотрудничество и подтверждает высокое качество высоковольтных вводов производства ООО «Масса», а также полное их соответствие всем нормативным требованиям.

Успешный опыт развития партнерских отношений между нашими предприятиями позволяет рекомендовать ООО «Масса» как надежного партнера, производителя и поставщика высоковольтных вводов.

Выражаем свою искреннюю благодарность Вам лично и всем службам завода «Изолятор» за оперативную и грамотную работу.

Первый заместитель  
Генерального директора –  
Коммерческий директор

А.В. Росляков

ИД 1733136 v 1

«Power Machines Toshiba. High-Voltage Transformers» LLC is a joint venture (JV) between OAO Power Machines and Toshiba corporation.

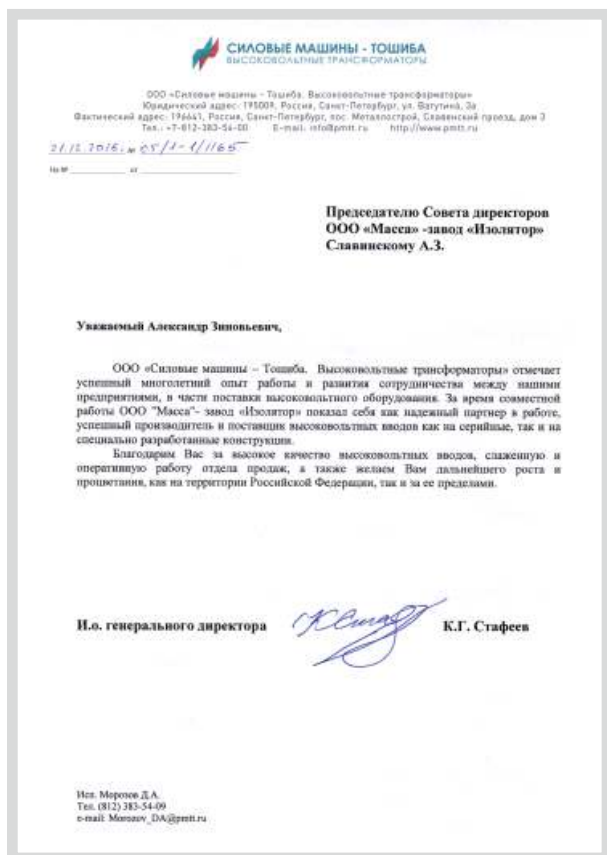
Project implementation started in September 2011 by signing by the companies of the agreement on creation of a joint venture and construction in Russia of a plant for manufacture of power transformers.

## Reference Letter

Power Machines - Toshiba. High-voltage transformers Ltd has enjoyed a successful and longstanding cooperation between our two companies in respect to high-voltage equipment supply. During our joint activities, Massa Ltd - Izolyator has proved a reliable partner and a successful manufacturer and supplier of high-voltage bushings both for serial and custom-made designs of our equipment.

We would like to thank you for the high quality of high-voltage bushings, well-coordinated and prompt response from your sales department and wish you a contingued growth and prosperity both in Russian Federation and far beyond.

Acting General Director  
**K. G. Stafeev**





**Zaporozhtransformator** is a largest manufacturer in CIS and Europe of oil power transformers and electric reactors, with plant capacity on single site of 60 ths. MVA per year.

## Reference letters

Zaporozhtransformator JSC would like to express its sincere gratitude for Massa Ltd - Izolyator plant for a responsible and contentious approach to work.

The longstanding experience of partnership development between Massa Ltd - Izolyator plant and Zaporozhtransformator JSC allows us to recommend Massa Ltd as a reliable partner, manufacturer and supplier of high-voltage bushings.

We highly appreciate our partnership with Massa Ltd - Izolyator plant and would like to highlight the high professionalism of the company staff, good teamwork, promptness and professionalism as well as consistently high quality of products, delivered to us.

We look forward to developing further our cooperation.

Sincerely,  
**A. O. Maksimenko**  
Director of Procurement and Logistics

We can confirm hereby that OOO Massa (IZOLYATOR plant) is for many years one of the principal suppliers of high-voltage bushings for transformers produced by PAO Zaporozhtransformator.

Products of OOO Massa, as integral parts of the equipment made by PAO Zaporozhtransformator, is widely presented both in Russia and CIS countries. Operating experience of Izolyator products included into equipment made by PAO Zaporozhtransformator in recent years allowed OOO Massa to reach higher technical level and greatly improve characteristics of their items.

In recent years, Massa demonstrates their willingness to improve and develop products taking into account recommendations from PAO Zaporozhtransformator, which fact characterizes Massa as responsible and reliable partner.

Best regards,  
Director for procurement and logistics  
**S.N. Yeryomin**





It is known as the **leading Kazakhstan manufacturer of general-purpose transformer equipment** supplied to all branches of industry, including electric power, metallurgy, machine building, transport, oil and gas complex, residential and public utilities sector.

## Reference letter

Kentau Transformer Plant JSC would like to thank Massa Ltd for cooperation in supply of transformer high-voltage bushings.

Hereby, we confirm that the partner relations between our companies have successfully developed since the start of production by Kentau Transformer Plant JSC 100 kV transformers.

Izolyator has remained a leading supplier of high voltage bushings for the needs of Kentau Transformer Plant JSC. During our cooperation, Massa Ltd has delivered over 1000 transformer high-voltage bushings that fully met technical specifications and came with no defects. We have no complaints and reclamations on the operating equipment.

The supplier has always met delivery terms strictly, promptly addressed issues of technical characteristics coordination and approval, which speaks for the high professionalism of Massa Ltd's management, sales and technical specialists.

Our longstanding cooperation allows us to recommend Massa Ltd as a trustworthy, reliable partners and a highly qualified high-voltage equipment supplier.

Sincerely,  
Chairman of the Board of Directors  
KTP JSC  
**Kh. B. Kozhabaev**







### Manufacturing complex of OJSHC «Elektrozavod»

is specialized in design and manufacture of transformer and reactor equipment which is traditional for the plant and has been manufactured for 80 years, for power utilities, industry and transport. The production area of the plant is approximately 95 thousand square meters.

### Reference letters of Manufacturing complex of Elektrozaovod

The successful partnership experience that has developed for decades between MC HC ELECTROZAVOD JSC and Izolyator plant allows us to recommend you as a successful manufacturer of high-voltage bushings of consistently high quality that meet modern standards and requirement.

Throughout its over century-long history, Massa Ltd - Izolyator plant has shown leadership on the power equipment market and gained trust as a reliable and experienced partner.

The management of MC HC ELECTROZAVOD JSC marks the high professional level, timely and good service delivery by the commercial and technical divisions of Izolyator plant. We would also like to emphasize the successful experience of installation, putting into operation and maintenance of high-voltage bushings of your plant.

We look forward to continuing our successful and mutually beneficial cooperation.

Sincerely,  
General Director  
**A. Yu. Andrianov**  
HC ELECTROZAVOD JSC



For many years, MC HC ELECTROZAVOD JSC has purchased 24 – 750 kV HV bushings made by Massa Ltd – Izolyator. All products that the company delivered meet the strictest quality and technical requirements.

The management of MC HC ELECTROZAVOD JSC would like to thank the staff of Massa Ltd – Izolyator plant for the high level of professionalism and concerted efforts of the sales team.

We look forward to our continued successful and mutually beneficial cooperation.

Sincerely,  
General Director  
**A. Yu. Andrianov**  
HC ELECTROZAVOD JSC





**Ufa Transformer Plant** is a modern enterprise with specialization in development and production of power and distribution transformers. The plant was built by Electrozaod JSC in 2009 and today is the largest power equipment building facility in Russia.

### Thank-you letter of Ufa Transformer Plant

BU UTP of ELECTROZAVOD JSC would like to thank Massa Ltd for the successful and productive cooperation experience in regard to high quality transformer HV bushings delivery.

During our cooperation, all issues of high-voltage bushings production and supply were promptly addressed, which speaks for the high professionalism of all divisions of Massa Ltd.

We look forward to our further cooperation and wish you continued growth and development.

Sincerely,  
Director  
**Yu. P. Vertyakov**





JSC "Chirchik transformer plant" more than 70 years successfully operated at the market of machine building, with producing of power transformers and unitized transformer substations of voltage class 10, 35, 110 and 220 kV, with power from 25 to 63000 kVA and execute repair of different difficulty power transformers of voltage class to 500 kV included, with power to 125000 kVA. Chirchik transformer plant is leading enterprise of electrical industry of the Republic of Uzbekistan.

## Thank-you letter of Chirchik transformer plant

AO Chirchik transformer zavodi appreciates Massa Ltd for cooperation in supply of transformer high-voltage bushings.

Power transformers of AO Chirchik transformer zavodi completed with Izolyator high-voltage bushings are successfully operating on the territory of the Republic of Uzbekistan and exported to more than 30 countries in the world: India, Pakistan, China, Mongolia, Egypt, Turkey, Vietnam, Korea, Greece, Bulgaria, Poland, Iraq, Iran, Cuba, Guinea, etc.

During our partnership with Massa Ltd, transformer high-voltage bushings, delivered to AO Chirchik transformer zavodi, have always met declared technical characteristics.

Massa Ltd has proved a stable and responsible partner that always meets delivery terms and conditions.

We hereby confirm that the longstanding cooperation experience of our companies allows us to recommend Massa Ltd as a reliable partner and a highly qualified supplier of high-voltage equipment.

We look forward to our continued fruitful cooperation.

Sincerely,  
General Director  
**A. O. Nazarov**



## References of Power Industry and Heavy Industry enterprises of Russia and CIS countries



Sibirskaya  
Electric-Installation  
Company

 **ABS Electro**



**PAO Mosenergo** is the largest regional generation company in Russian Federation and integral technological part of Russian Unified Energy System. The company is one of the world's largest producer of heat.

## Reference Letter of TETs-22

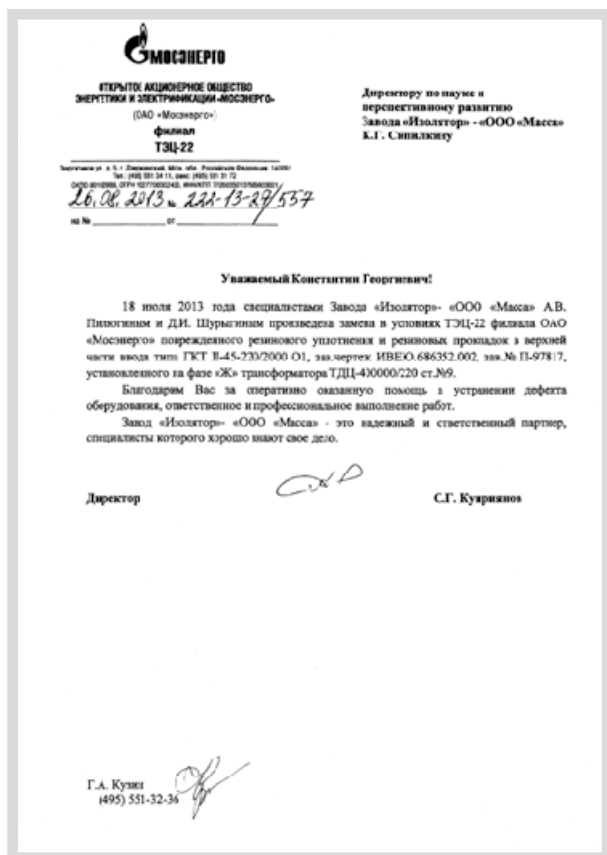
Dear Konstantin Georgievich,

On 18 July 2013, A.V. Pilyugin and D.I. Shurygin, specialists of Izolyator plant — OOO Massa, have replaced on site of TETs-22, branch establishment of OAO Mosenergo, the damaged rubber sealing and rubber gaskets in upper part of the bushing of type ГКТ II-45-220/2000 О1, dwg. ИВЕЮ.686352.002, serial No. П-97817, installed on phase «Zh» of transformer ТДЦ- 400000/220 No. 9.

We are grateful to You for promptly rendered assistance in elimination of equipment defect, responsible and professional execution of works.

Izolyator plant — OOO Massa is reliable and responsible partner, personnel of which is highly competent in their field of business

Director  
**S.G. Kupriyanov**




**ОАО «МОСЭНЕРГО»**  
ОТКРЫТОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО  
ЭНЕРГЕТИКИ И ЭЛЕКТРИФИКАЦИИ «МОСЭНЕРГО»  
(ОАО «Мосэнерго»)  
филиал  
ТЭЦ-22


Директору по науке и перспективному развитию  
Завода «Изолятор» - «ООО «Масса»  
А.Г. Сивилскому

18 июля 2013 года специалистами Завода «Изолятор» - «ООО «Масса» А.В. Пилигиным и Д.И. Шурьгиным произведена замена в условиях ТЭЦ-22 филиала ОАО «Мосэнерго» поврежденного резинового уплотнения и резиновых прокладок в верхней части ввода типа ГКТ II-45-220/2000 О1, эвс.чертеж ИВЕЮ.686352.002, эвс.№ П-97817, установленного на фазе «Ж» трансформатора ТДЦ-400000/220 ст.№9.

Благодарим Вас за оперативно оказанную помощь в устранении дефекта оборудования, ответственное и профессиональное выполнение работ.

Завод «Изолятор» - «ООО «Масса» - это надежный и ответственный партнер, специалисты которого хорошо знают свое дело.

Директор  С.Г. Куприянов

Г.А. Кузнец  
(495) 551-32-34 



**ROSENERGOATOM**

ELECTRIC POWER DIVISION OF ROSATOM

**Leningrad NPP** is a major producer of electrical power in the Russian North-West. The plant meets more than 50 % of the power needs of St. Petersburg and the Leningrad Oblast. Leningrad NPP accounts for 28 % of the fuel and power balance of the entire North-West region.

## Reference letter of Leningradskaya NPP

Hereby please be informed that starting from 2011 our company has ordered and purchased 10 high-voltage bushings with oil-in-paper insulation for 750 kV voltage class made by Massa Ltd (Izolyator plant).

Massa Ltd has been a regular supplier of high-voltage bushings to Leningradskaya NPP.

The products of your company are of a high quality, meet all GOST requirements, international standards and TU technical requirements.

We have no complaints concerning delivery terms, equipment configuration, quality and operation of high-voltage bushings made by Izolyator.

Chief Engineer  
**K.G. Kudryavtsev**

 **РОСЭНЕРГОАТОМ**  
Атомная энергетика России  
по производству электрической и тепловой энергии  
на атомных станциях (АО «Росэнергоатом»)  
Филиал АО «Росэнергоатом»  
«Ленинградская атомная станция»  
(Ленинградская АЭС)  
г. Санкт-Петербург, Ленинградская обл., 188440  
тел.: (813) 59977, е-мейл: info@lga.ru  
факс: (813) 52391, е-мейл: info@lga.ru  
факс: (813) 7388, е-мейл: info@lga.ru  
ОКПО 0002474 ОКН 18074019991  
ИНН 772743801 ОГРН 1077743801

28.11.2018 № 9-001/01/16961  
На № \_\_\_\_\_ от \_\_\_\_\_  
О работе высоковольтных вводов 750кВ

Уважаемый Сергей Борисович!

Сообщаем Вам, что начиная с 2011 года нашим предприятием было заказано и куплено 10 высоковольтных вводов с БМВ на класс напряжения 750 кВ производства ООО «Масса» (завод «Изолятор»).

ООО «Масса» уже на протяжении многих лет является постоянным поставщиком высоковольтных вводов в адрес Ленинградской АЭС.

Поставляемая продукция Вашего производства неизменно высокого качества, соответствует требованиям ГОСТ, международных стандартов и ТУ.

Претензий по срокам поставки, комплектации, качеству и эксплуатации высоковольтных вводов Вашего производства не имеем.

Главный инженер

 К.Г.Кудрявцев

Введ. № 1221  
от 28.11.2018  
подпись

Д.Н.Татарова  
тел. 511330  
д. 00071-08  
28.11.2018



**Volzhskaya plant** is the largest hydropower plant in Volzhsko-Kamsky cascade and Europe. The station's capacity is 2671 MW. The power plant is an important unit in the unified power grid of Russia linked in with 220 and 500 kV high-voltage lines of alternating current.

### Reference letter of Volzhskaya plant

I am pleased to inform you that in August 2016, we completed replacement works of an oil-filled 400 kV HV bushing for a GKTIII-60-(+/-)400/1250 O1 IVUE.686354.704 Massa Ltd - Izolyator bushing with solid RUP insulation.

Taking into account all available experience of installation and operation of Izolyator's GKTIII-60-(+/-)400/1250 O1 IVUE.686354.704 type bushing, we have no complaints.

Branch Director  
**S. N. Bologov**





State production association of electric power engineering  
BELENERGO.  
Vitebsk Republican Unitary Electric Power Engineering  
Enterprise Vitebskenergo.

## Reference Letter of Vitebskenergo

On operation of high-voltage bushings.


In response to Your inquiry about operation of high-voltage bushings made by OOO Massa (Russian Federation), we advise You as follows.

RUP Vitebskenergo operates the high-voltage bushings for 110– 330 kV made by OOO Massa (Russian Federation).

There are no remarks or faults of the high-voltage bushings made by OOO Massa (Russian Federation) identified during period of operation. The HV bushings are in perfect technical condition and fully comply with ratings.

Deputy Chief Engineer  
**S.A. Posokhov**

OT: ВИТЕБСКЭНЕРГО ТЕР: 80212474022 27 MAY 2015 9:33 СТР: 1

<p>Дирекция выторме абаман электронетткн «ВІТІЕНЕРГО» Вітсбскс рспублікаскс унітарнс прадпрыемства электраэнергеткн «Вітсбскснерга» (РУП «Вітсбскснерга») ул. Прадмы, 30, 210029, г. Вітсбск тел. +375 (212) 47 01 50 – прадмы факс: +375 (212) 47 30 75, 47 40 22 e-mail: center@vitebsk.energo.by http://www.vitebsk.energo.by р/р 3012115917020 у Рэгіянальнай дзрэкцыі № 200 ААТ «ВПС-Сбербанк» БІК 153001369 УНП 300000252 27.05.2015 № 1101ф На № 255 ад 21.05.2015 г.</p> <p>Об эксплуатациі высоковольных вволов</p> <p>На Ваш запрос об эксплуатациі высоковольтных вволов производства ООО «Масса» РФ сообщаем следующее. В РУП «Вітсбскснерга» эксплуатируются высоковольтные вволов 110-330 кВ производства ООО «Масса» РФ. За время эксплуатациі высоковольтных вволов производства ООО «Масса» РФ замечаний и неисправностей не выявлено. Высоковольтные вволов находятся в исправном техническом состоянии и полностью соответствуют паспортным характеристикам.</p> <p>Заместитель главного инженера  С.А. Посохов</p> <p>+375212(47-00-55), Удзельск</p>	<p>Государственное производственное объединение электронетткн «ВІТІЕНЕРГО» Вітсбскс рспублікаскс унітарнс прадпрыемства электраэнергеткн «Вітсбскснерга» (РУП «Вітсбскснерга») ул. Прадмы, 30, 210029, г. Вітсбск тел. +375 (212) 47 01 50 – прадмы факс: +375 (212) 47 30 75, 47 40 22 e-mail: center@vitebsk.energo.by http://www.vitebsk.energo.by р/р 3012115917020 у Рэгіянальнай дзрэкцыі № 200 ААТ «ВПС-Сбербанк» БІК 153001369 УНП 300000252</p> <p>Генеральному директору ЗАО «Западный проект» Лагуны С.Н.</p>
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State enterprise providing electric power to consumers in Minsk and Minskaya region, heat supply in cities Minsk, Molodechno, Zhodino, Borisov, Vileyka, Soligorsk, Slutsk and settlements Rudensk, Druzhny, Svisloch. Part of State Production Association Belenergo.

## Reference Letter of Minskenergo

Over a period of years, ZAO Zapadny proyekt supplies the highvoltage bushings of various voltage classes made by OOO Massa to branch establishments of RUP Minskenergo: Slutsk Electric Grid, Stolbtsy Electric Grid, Molodechno Electric Grid, Borisov Electric Grid, Minsk Heat and Power Plant No.4, Zhodino Heat and Power Plant.

All delivered products have necessary data sheets and certificates. The delivery is carried out in strict compliance with technical documents. There are no claims regarding quality of the products.

Deputy Chief Engineer  
**A.A. Goranin**

07.144.03.00700 TEL: 2272111 25.10.2015 14:04 СТР.1

**Заказчик:** Мinskenergo  
**Исполнитель:** ЗАО «Западный проект»

**Минское республиканское унитарное предприятие электроснабжения «МИНСКЭНЕРГО»**  
ул. Архангельская, 24, 220033, г. Минск  
тел: (017) 223 81 03, факс: (017) 227 21 11  
E-mail: oib@mi.minskenergo.by  
р/с 3002307400011 Центр банковских услуг № 703  
ААТ «БДБ-Сбербанк» г. Минск, БИК 133001369


**Государственное производственное объединение электроснабжения «Белэнерг»**  
**Минское республиканское унитарное предприятие электроснабжения «МИНСКЭНЕРГО»**  
ул. Архангельская, 24, 220033, г. Минск  
тел: (017) 223 81 03, факс: (017) 227 21 11  
E-mail: oib@mi.minskenergo.by  
р/с 3002307400011 Центр банковских услуг № 703  
ОАО «БДБ-Сбербанк» г. Минск, БИК 133001369

№ 05 2015 № 7846/1  
На № 253 от 21.05.15

Генеральному директору  
ЗАО «Западный проект»  
Лагузу С.Н.

На протяжении ряда лет ЗАО «Западный проект» осуществляет поставку высоковольтных вводов различных классов напряжения производства ООО «Масса» для филиалов РУП «Минскэнерго»: Слуцкие ЭС, Столбцовские ЭС, Молодечненские ЭС, Борисовские ЭС, Минская ТЭЦ-4, Жодиноская ТЭЦ.

Вся поставленная продукция имеет необходимые паспорта и сертификаты. Поставка продукции выполняется в строгом соответствии с технической документацией. Замечаний по поводу качества продукции нет.

Зам. главного инженера  А.А. Горанин

24 Магистры 214028





Mogilev power system provides generation, transmission, distribution and selling of electric and heat energy, with operative-dispatch control of these processes. **RUP Mogilevenergo** includes 12 branches.

## Reference Letter of Mogilevenergo

In response to Your inquiry of 20.05.2015, I can advise You that we don't have complaints regarding quality of highvoltage bushings for 330–35 kV made by OOO Massa (Russian Federation) and delivered by TChUP Sagrat.

Best regards,  
Chief Engineer  
**A.M. Shishov**

FROM : Mogilevenergo. PHONE NO. : 80222253438 FAX: 20 2015 10:28PM P1

Дирекция энергетического хозяйства  
Могилевской республиканской энергетической  
предприятия энергетического хозяйства  
«Могилевэнерго»  
(РП «МОГИЛЕВЭНЕРГО»)  
ул. Бель-Вулицы, 3, 212030, г. Могилев  
тел. (0222) 29 33 79, факс (0222) 29 34 81  
e-mail: energo@mogilevenergo.by  
Р/р: 3012193350/5 в Речном Дистанции М600  
АЛТ «СГЭС-Сбербанк», БИК 153001369


Государственное предприятие общенационального значения  
«Могилевэнерго»  
Могилевская республиканская энергетическая  
предприятия энергетического хозяйства  
«Могилевэнерго»  
(РП «МОГИЛЕВЭНЕРГО»)  
ул. Бель-Вулицы, 3, 212030, г. Могилев  
тел. (0222) 29 33 79, факс (0222) 29 34 81  
e-mail: energo@mogilevenergo.by  
Р/р: 3012193350/5 в Речном Дистанции М600  
АЛТ «СГЭС-Сбербанк», БИК 153001369

на № \_\_\_\_\_ вл \_\_\_\_\_  
Об отзыве по вводу  
высоковольтным

Директору ТЧУП «Сатурн»  
Мельнику Д.П.  
Факс: 8-017-237-71-01

На Ваш запрос от 20.05.2015 сообщено, что к поставленным ТЧУП «Сатурн» вводам высоковольтным на напряжение 330-35 кВ производства ООО «Масса» (РФ) претензий по качеству нет.

С уважением,  
Главный инженер

  
А.М. Шишов

Усевич  
293-365



**Barki Tochik JSC** is a state-owned national electric power company of the Republic of Tajikistan based in the republic's capital – Dushanbe. The company and its assets are a property of the Republic of Tajikistan. The company's mission is to produce, transport, transmit, distribute and sell electricity and heat primarily on local market of Tajikistan.

### Reference letter of Barki Tochik

Tajikenergосnab, subsidiary of Barki Tochik JSC informs that it is a principal supplier of power equipment for the needs of power grid operation at the Republic of Tajikistan.

For many years, our company has cooperated with the manufacturer of 35-500 kV high-voltage bushings Izolyator, based in Moscow, Russian Federation. The high-voltage bushings of this manufacturer have gained a good reputation for reliable operation in high mountain regions with hot climate of the Republic of Tajikistan. Over 80% of 35 - 500 kV bushings operating in our country are the products of Mosizolyator.

Director  
**S. A. Boboev**

ҶУМҲУРИИ ТОҶИКИСТОН  
ШИРКАТИ САҲНОМИ  
ХОЛДИНГИНГ КУШОДАН  
«БАРКИ ТОЧИК»  
Корхонаи фарми таъминоти  
модди – техникаи

РЕСПУБЛИКА ТАДЖИКИСТАН  
ОТКРЫТАЯ АКЦИОНЕРНАЯ  
ХОЛДИНГОВАЯ КОМПАНИЯ  
«БАРКИ ТОЧИК»  
Дочернее предприятие  
материально – технического  
обеспечения

«ТОЧИКЭНЕРГОСНАБ» «ТАДЖИКЭНЕРГОСНАБ»

7340/06, м. Душанбе, Р. Набатов 345, ДПМТО «Таджикэнергоснаб», Тел-Факс (992-372) 239-82-02.  
E-mail: [tev\\_dpmto@mail.ru](mailto:tev_dpmto@mail.ru) р/с 2020292216909001287, МФО 350101369, ОИЕРУ «Трибуна» г. Душанбе.

№ 11.12 № 21/2-03

По месту требования

ОТЗЫВ

ДПМТО «Таджикэнергоснаб» ОАХК «Барки Точик» ставит Вас в известность, что является основным поставщиком электрооборудования для эксплуатационных нужд энергокомпаний Республики Таджикистан. Наша энергокомпания в течении многих лет плодотворно сотрудничает с производителем высоковольтных вводов 35-500 кВ компанией «Изолятор» город Москва, Российская Федерация. Высоковольтные вводы данной компании положительно зарекомендовали себя в условиях высокогорья и жаркого климата Республики Таджикистан. Более 80% эксплуатируемых в стране вводов 35-500 кВ являются продукцией компании «Мосизольтор».

Директор  Бобоев С.А.

Вос - 03  
Тел. +992 372 3942 02



**JSC Georgian State Electrosystem (GSE)** is a 100 % state-owned joint stock company providing transmission and exclusive dispatch services to about 50 eligible companies in Georgia. Based on the transmission and dispatch tariffs established by the independent regulator (GNERC-Georgian National Energy and Water Regulatory Commission) GSE carries out technical control over the entire power system to ensure the availability of the system for uninterrupted and reliable power supply

## Reference letter of Georgian State Electrosystem

In reply to your inquiry No.07/671 dated 2 October 2017 we are pleased to inform that in 2014 - 2016, the State Electrosystem of Georgia JSC has purchased and put in operation 20 pcs of high-voltage bushings of Massa Ltd. under the corresponding agreements (No.60-7-114-331; No.60-7-115-178; No.60-7-116-64).

With this letter, the State Electrosystem of Georgia JSC confirms that the products of Massa Ltd meet all required standards have no complaints throughout operation.

Sincerely,  
**Sulkhan Zumburidze**  
Chairman of the Board

**საქართველოს სახელმწიფო ელექტროსისტემა / Georgian State Electrosystem**  
საქართველო, ქიზიბურთის ქ. 0105, საქართველო J. Bazarashvili str., Tbilisi 0105, Georgia. ტელ./დოკუმენტი/ფაქსი: +995 322 305754; +995 322 510727  
N 4840/07  
18/10/2017  
4840-07-2-201710180943  
Председателю совета директоров ООО «Масса»  
Г-ну Салкхану А. З.

Уважаемый Александр Звиномвич,

В ответ на ваш запрос №07/671 от 02.10.2017г. сообщаем, что в период с 2014 по 2016 год на основе соответствующих договоров (№60-7-114-331; №60-7-115-178; №60-7-116-64) АО «Государственная Электросистема Грузии» были закуплены и введены в эксплуатацию 20 (двадцать) штук высоковольтных выводов производства ООО «Масса».

Данным письмом АО «Государственная Электросистема Грузии» подтверждает, что поставленная продукция завода ООО «Масса» соответствует требуемым стандартам и в процессе эксплуатации каких-либо несоответствий выявлено не было.

С уважением,  
Сулхан Зумбуридзе  
Председатель Совета Правления

www.gse.com.ge  
საქართველოს სახელმწიფო ელექტროსისტემა / GEORGIAN STATE ELECTROSYSTEM JSC



The state unitary enterprise of the Republic of the Crimea Krimenergo (GUP RK Krimenergo) is the largest power company of the Crimea that was created to ensure stability of the power grid operation and energy security in the region. The company combines activities in operational dispatch management of the power network, power transmission via 220–330 kV main power transmission lines and distribution networks, power supply to users (as last-resort supplier).

## Reference letter of Krimenergo

In reply to your inquiry, we are pleased to inform that presently, we have three GKRIL-60-330/1000 IVUE.686353.171 type 330 kV HV bushings of Izolyator in operation at RC Krymenergo. Current operating time is 3 years.

According to the free of charge service granted by Izolyator, SUE Krymenergo invited an engineering supervisor of Izolyator for installation of those bushings. During the testing, installation on the equipment and putting in operation of the units we recorded no faults. All necessary requirements to technical specification, complete set, quality of high-voltage bushings and the volume of attached documentation we fully met.

During the operation of high-voltage bushings of that type, we have not registered any faults. The products operate in a normal mode.

Sincerely,  
Deputy Technical Director  
ETL 220 - 330 kV  
N. V. Fedorov

  
ГУП РК «КРЫМЭНЕРГО»  
ГОСУДАРСТВЕННОЕ  
УНИТАРНОЕ ПРЕДПРИЯТИЕ  
РЕСПУБЛИКИ КРЫМ «КРЫМЭНЕРГО»

Российская Федерация, Республика Крым,  
296004, г. Симферополь, ул. Николаев, 74/8.  
Примечание: тел./факс: +7 (3452) 24-85-01;  
sklad@krimenergo.ru;  
Отдел для потребителей и партнеров:  
тел.: +7 (3452) 27-23-24, факс: +7 (3452) 60-00-80;  
krm@krimenergo.ru;  
http://krimenergo.ru/;  
ОГРН: 1140302003423  
ИНН: 910200078, КПП: 910200001  
МФН: 0426-021213 и др. «Грибышка»  
МФН: 0426-021213(03)00000123  
Р/С: 40602833002300000027 (итого)  
Р/С: 40602833002300000027 (переводимые)

12.04.2017 № 24/17170

ООО «Масла»  
Директору направляется  
стратегический приказ  
А.А. Савинскому  
факс: (495) 727-23-66  
E-mail: mas@izolyator.ru

Отдел работы  
продукции

Уважаемый Александр Александрович!

В ответ на Ваш запрос сообщаем, что в настоящее время на ПС-330 кВ «Северный» ГУП РК «Крымэнерго» и эксплуатации находится три высоковольтных ввода типа ГСПИ-60-330/1000 IVUE.686353.171 на класс напряжения 330 кВ производства компании «Изолитор».

Срок эксплуатации три года.

Согласно предоставленной безвозмездной услуге компании «Изолитор», ГУП РК «Крымэнерго» пригласило на проведение монтажа данных вводов инженера компании «Изолитор». При проведении испытаний, установке на оборудование и ввода в работу нарушений зафиксировано не было. Все необходимые требования к техническим характеристикам, комплектации, качеству высоковольтных вводов, а также к объему требуемой документации выполнены в полном объеме.

За время эксплуатации высоковольтных вводов данного типа нарушений не зафиксировано. Все продукция работает в штатном режиме.

С уважением,  
заместитель технического директора  
по электрическим сетям 220-330 кВ

 Н.В. Федоров

ЭЛ  
220-330 кВ  
06-12-68



### Electrical equipment maintenance factory (RETO).

Today the plant's main activity is service of high-voltage equipment: 6–500 kV power transformers, bushings, oil arc-suppression coils, electric motors.

### Reference letter from RETO

Massa Ltd has been a supplier of 20-220kV bushings to our company in a number of years.

The company products are of high quality, adhere to modern standards and normative and technical documentation with all certificates available.

Mass Ltd has always met delivery time for supply of their products.

Chief Engineer  
**A.A. Zhukov**







The **Electroshield Samara Group** is an advanced technology industrial company, boasting 70 years of history, and the largest domestic manufacturer 0.4–220 kV distribution equipment. This is one of the leading engineering companies comprising two design institutes, construction company, several manufacturing sites in Russia and the CIS and a well-developed regional offices network.

### Thank-you letter of Electroshield Samara Group

In 2016, we received 18 pcs of 110 kV GKLP-type HV bushings made by Izolyator under the contract No.07/53-114 dated 22 March 2016. We received the order in the shortest available time. All necessary requirements to technical specification and product quality as well as technical documentation were fully met by the manufacturer.

During our cooperation, Massa Ltd - Izolyator has proved a reliable partner.

Thank you for your cooperation.

Sincerely,  
Vice President Supply Chain  
**Tierry Comptes**



**VNIIR Hydroelectroautomation JSC** offers its customers a complete services range in design, configuration, supply, installation, commissioning and putting into operation of power facilities. The enterprise operates as a full cycle engineering company from identification of customer requirements and feasibility study to putting the facility into operation.

## Reference letter of VNIIR Hydroelectroautomation

The limited liability company Massa has been a reliable partner to us since 2016. During our cooperation, Massa Ltd has proved a reliable and a highly professional partner that met all obligations in time, kept spoken and written arrangements and observed requirements of the RF legislation, taking care of the interests of its partners. We appreciate Massa Ltd as a stable and reliable partner and intend to develop our close partner relations, based on trust, understanding and compromise.

General Director  
VNIIR Hydroelectroautomation JSC  
**D. S. Fomichev**





**Achinsky Refinery** makes 100 petroleum products. The plant focuses on motor aircraft fuels.

## Reference letter from Achinsky Refinery

In response to your letter #07/166 dated 24 February 2011 we are pleased to inform:

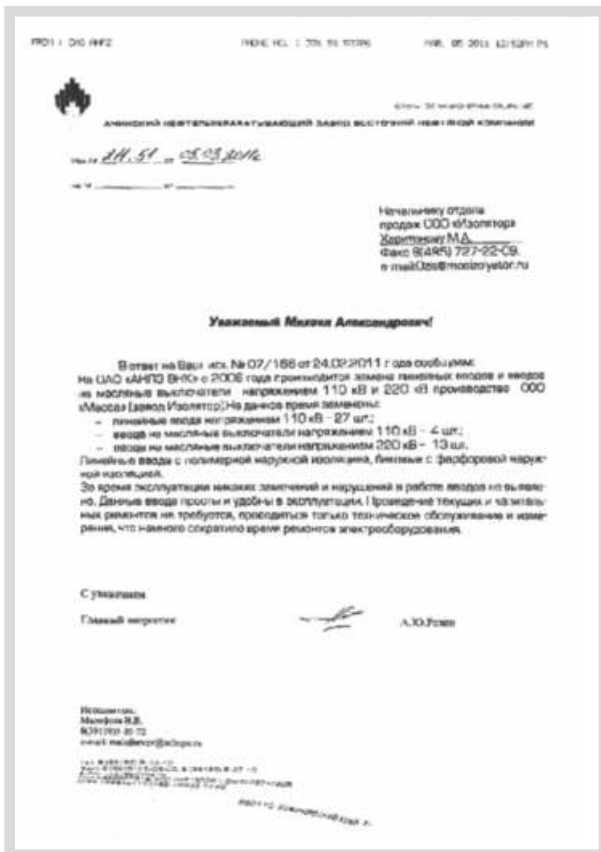
Since 2006 we have replaced for Massa Ltd-made (Izolyator) 110 kV and 220kV line and oil switch bushings:

- 110kV line bushings – 27 pcs
- 110kV bushings for oil switches – 4 pcs
- 220kV bushings for oil switches – 13 pcs

The line bushings are polymer insulated, tank-type bushings – with ceramic external insulation.

We have not identified any faults in the equipment operation. The bushings are reliable and easy to operate: no running repair or overhaul is required – only minimal maintenance and measurements are done significantly cutting time on electrical equipment repairs

Chief Power Engineer  
**A.Yu. Razin**



**Siberian Electrical Fitting Joint Stock Company** is specialized in power equipment diagnostics, safety and residual operation life expertise as well as electrical equipment installation, commissioning and construction services.

## Reference Letter from Sibirskaya Electric-Installation Company

In the second half 2013, Sibirskaya Electric-Installation Company purchased 2 sets of IVUE 686352.103-03 bushings with RIP insulation made by Izolyator for servicing TD TN-10000/110kV power transformers.

The purchase was preceded by a detailed analysis of the supplier market for this product. The bushings were delivered to the installation facility on time. The HV tests run upon commissioning showed excellent quality of your products.

We would like to express our gratitude for the high product quality and professional sales department delivery – it is a pleasure to work with your team!

We expect to continue cooperation!

General Director  
**V.V. Berezovsky**





**Uralenergoremont JSC** is one of the leading specialized maintenance companies on power equipment market.

### Reference letter from Uralenergoremont JSC

For several years Massa Ltd has manufactured and supplied through dealers 35, 110, 220kV bushings for the needs of Uralenergoremont JSC.

All products meet high quality standards and have required certificates and technical documentation. All deliveries were executed within schedule in strict compliance with technical specifications.

Uralenergoremont JSC management marks professionalism of the partners and looks forward to continue cooperation.

General Director  
**I.Ya. Guryev**

  
**УРАЛЭНЕРГОРЕМОНТ**  
Год основания – 1948

Генеральному директору  
ООО «Масса»  
Господину Монсееву С.Б.

ОАО «УРАЛЭНЕРГОРЕМОНТ»  
Средне-часовой адрес: 620219 г. Екатеринбург, ул. Шаверина, 16.  
Почтовый адрес: ул. Шаверина, 16, г. Екатеринбург, Россия, 620075  
ИНН 6606001308, КПП 660601001, ОГРН 1026600481897,  
ОКПО 00110833, тел. (343) 350-81-46, факс (343) 388-14-59,  
e-mail: uer@uer.ru, www.uer.ru

18.10.2018 № 84/1623  
На № \_\_\_\_\_ от \_\_\_\_\_

Уважаемый Сергей Борисович!

На протяжении ряда лет ООО «Масса» изготавливает и осуществляет поставку через своих дилеров, выездные бригады на напряжение 35, 110, 220 кВ для нужд ОАО «УРАЛЭНЕРГОРЕМОНТ».

Вся поставленная продукция соответствует высокому качеству и имеет необходимые паспорта и сертификаты. Поставки выполнялись в оговоренные сроки и в строгом соответствии с технической документацией.

Руководство ОАО «УРАЛЭНЕРГОРЕМОНТ» отмечает профессионализм работников завода и рассчитывает на продолжение плодотворного сотрудничества.

Генеральный директор  И.Я. Гурьев



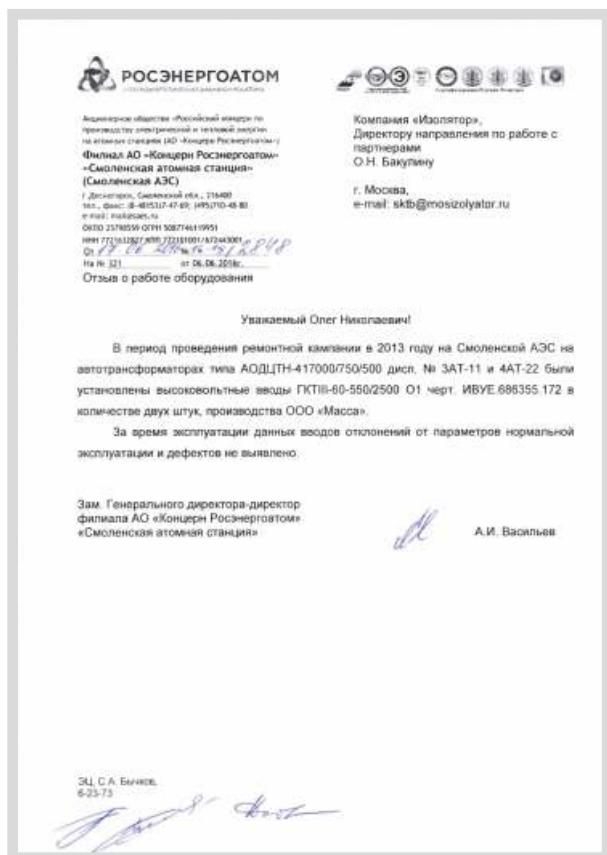
**Smolensk NPP** is a town-forming enterprise located in the Smolensk region, the largest contributor to the fuel and energy balance in the region. Annually, the power plant produces 20 bln kWhr of power on average, which makes over 75 % of the total generation of the Smolensk region. Smolensk NPP is a branch of Rosenergoatom Concern.

## Reference letter of Smolensk NPP

During our maintenance program in 2013, we installed high-voltage bushings of Massa Ltd (2 pcs of GKTIII-60-550/2500 O1 drawing IVEU.686355.172) on AODCTN-417000/750/500 disp.No.3AT-11 and 4AT-22 autotransformers at Smolensk NPP.

Over the period of operation of the above bushings, we have not registered deviations from normal operation and defects.

Deputy General Director  
Smolensk Nuclear power plant  
branch of Rosenergoatom Concern  
**A. I. Vasilyev**



**РОСЭНЕРГОАТОМ**  
Акционерное общество «Российский концерн по производству электрической и тепловой энергии на атомных станциях (АО «Концерн Росэнергоатом»)»  
«Филиал АО «Концерн Росэнергоатом» – Смоленская атомная станция»  
(Смоленская АЭС)  
г. Смоленск, Смоленской обл., 214000  
тел./факс: 8-48122-47-49; 8-48122-48-80  
e-mail: makros@yandex.ru  
ОГРН 1045000000000  
ИНН 50/0000000000  
ОГРН 1045000000000  
Идентификационный номер налогоплательщика 50070411951  
От 19.08.2013 № 19.08.2013  
На № 321 от 08.08.2013  
Отзыв о работе оборудования

Компания «Изолятор»,  
Директору направления по работе с партнерами  
О.Н. Бакулину  
г. Москва,  
e-mail: skfb@mosizolyator.ru

Уважаемый Олег Николаевич!

В период проведения ремонтной кампании в 2013 году на Смоленской АЭС на автотрансформаторах типа АОДЦТН-417000/750/500 дисп. № 3AT-11 и 4AT-22 были установлены высоковольтные вводы ГКТIII-60-550/2500 О1 черт. ИВУЕ.686355.172 в количестве двух штук, производства ООО «Масса».

За время эксплуатации данных вводов отклонений от параметров нормальной эксплуатации и дефектов не выявлено.

Зам. Генерального директора-директор филиала АО «Концерн Росэнергоатом» – «Смоленская атомная станция»  
А.И. Васильев

З.А. С.А. БУНОВ,  
6-23-73

**ABS Electro** is a group of companies that provides customers with profitable advanced solutions in several diverse fields: electric power industry, shipbuilding, housing maintenance and utilities, oil, gas, metal, mining and others.

## Thank-you letter of ABS Electro

In April 2016, VNIIR JSC purchased a high-voltage bushing GKTIII-60-(+)-400/1250 O1, IVEU.686354.704 from Massa Ltd - Izolyator, which we used on Volga HPP of RusHydro PJSC during the replacement works under the program of transformer HV bushings complex replacement in July 2016.

Until this moment, we have received no complaints about the quality of manufacture and operation of the high-voltage bushing from Volga HPP in the address of VNIIR JSC.

I would like to thank you and the entire Massa Ltd - Izolyator staff for the timely and quality delivery of the high-voltage equipment.

Deputy General Director on  
projects execution  
**N. V. Lobanov**



**АБС Электро**

14.07.2017 № ДУП-383  
на № \_\_\_\_\_ от \_\_\_\_\_

Генеральному директору  
ООО «Масса»  
Компания Изолатор  
Москва С.Б.  
Фин: (495) 727 27 66

О высоковольтном вводе 400кВ  
Объект: Волжская ГЭС

Уважаемый Сергей Борисович!

ОАО «ВНИИР» в апреле 2016 г. приобрело в ООО «Масса» Компания Изолатор высоковольтный ввод ГКТIII-60-(+)-400/1250 O1, IVEU.686354.704, который был поставлен и успешно введен в эксплуатацию на Волжской ГЭС ПАО «РусГидро» в рамках титула «Комплекс работ по поставке и замене высоковольтных трансформаторных вводов в июле 2016г.

До настоящего момента, заявок - либо нареканий на качество изготовления и функционирование высоковольтного ввода со стороны Волжской ГЭС в адрес ОАО «ВНИИР» не поступало.

Благодарю Вас и коллектив ООО «Масса» Компания Изолатор за своевременную и качественную поставку высоковольтного оборудования.

Заместитель генерального директора  
по реализации проектов

 **Н.В. Лобанов**

Петров В.Г.  
(8122) 10-01-08

ОАО «ВНИИР»

Росси. 420034, Чувашская Республика, г. Чебоксары, пр. И.Васильева, 4. Тел.: +7 (8332) 20 0000.  
Факс: +7 (8332) 20 0000. E-mail: info@vniir.ru, vniir@vniir.ru, vniir@vniir.ru



**Aetos Ltd** is an importer of electrical equipment of world's leading OEMs for the needs of power industry companies in Georgia.

 შ.პ.ს. აეტოს  
**AETOS L.T.D.**

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№ 141/12 от 19.12.2017 г.

Коммерческому директору 1-му заместителю  
генерального директора ООО "Масса" Панфилову  
Ивану Дмитриевичу

ООО «Аетос» благодарит ООО «Масса» за положительный опыт сотрудничества в части поставки высоковольтных вводов.

Вся поставленная продукция производства завода продукция точно соответствовала техническим характеристикам паспорта качества и не имела дефектов. Нарекания и рекламации отсутствуют.

За время нашего сотрудничества на преддоговорной стадии и дальнейшей работе по согласованию технических характеристик и спецификаций к договору все вопросы решались оперативно, что указывает на высокий профессионализм всех служб ООО «Масса».

Надеемся на дальнейшее развитие сотрудничества и увеличение объема отгрузок.

С уважением Директор ООО «Аетос»  
Т.Шарикадзе


საქართველო, ქ.თბილისი, 0109 გიორგი ბერძენიძის გამზირი/შენიშვნა 1.9 II ს. კ. #99 999 936792  
101 Giorgi Beridze's Str. 1, Dali Daghesti, 0109 Tbilisi, Georgia. e-mail: aetos5@gmail.com

### Thank-you letter of Aetos Ltd

Aetos Ltd would like to express gratitude for Massa Ltd for a positive experience in delivery of high-voltage bushings.

All received products of the plant fully met technical requirements of the quality passport and came with no defects. We have no complaints and reclamations.

Throughout our cooperation including precontract stage and agreement of technical features and specifications to the supply contract, Massa Ltd promptly addressed all issues, which speaks for the high professionalism of all divisions of the plant.

We are looking forward to developing our cooperation and growing the volume of shipments.

Sincerely,

Director  
Aetos

**T. Sharikadze**

## PARTNERSHIP



WE ARE BRINGING  
TOGETHER INTERESTS  
OF THE STATE POWER  
GRIDS

ПРОИЗВОДИМ ВСЕ СПЕКТР  
ВЫСОКОВОЛЬТНЫХ ВВОДОВ  
ОТ 12 ДО 1200 КВ

## THE WHOLE RANGE OF HV BUSHINGS



## QUALITY



COMPANY AND PRODUCTS  
RECOGNIZED WORLDWIDE

SUPPLY RECORD  
IN EVERY REGION  
OF THE WORLD

EXPORTS  
30 TO OVER  
COUNTRIES



## Foreign customers



**SIEMENS**



**KONČAR**

**elering**  
ÜHENDAME ENERGIAD



**CESI**





**Crompton Greaves Limited** – Indian based multinational with expertise in development and production of power equipment for generation, transmission and distribution of electricity headquartered in Mumbai.



## Certificate of Official Supplier to Crompton Greaves Limited



## Reference letter from Crompton Greaves Limited

Transformer division (T1) of Crompton Greaves Ltd., Mumbai, India has installed IZOLYATOR MAKE 3 NOS 600 KV 800 AMP, RIP bushings with Serial Nos. 30016, 30519 and 30622 manufactured by OOO Massa as per IEC 60137 on reactor testing transformer since April 2013.

We have tested 9 Reactors using this reactor testing transformer at 476 KV for total duration of approx. 9 to 10 hours till date.

Hereby we certify that performance of these RIP bushings on reactor testing transformer is satisfactory.

General Manager & Plant Head.  
Power Transformer Div.T1  
Mumbai, India.



**Koncar Power Transformers Ltd.** is a company that specializes in equipment and devices production for power generation, transmission and distribution as well as transportation and industry.

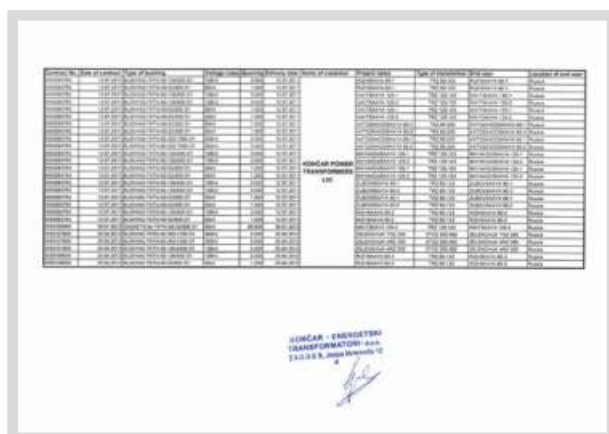
## Reference Letter from Koncar Power Transformers Ltd.

Koncar Power Transformers Ltd have purchased 53 bushings for projects in Russia in 2011 and 2012 year from Izolyator factory – OOO Massa for large power transformers (80, 125 and 200 MVA).

All the bushings were delivered on time and with the agreed terms.

According to past experience in working with OOO Massa we can confirm quality of products and all other standards regulation.

Purchasing Dpt,  
**Ivan Puk**



**Elering AS (former name: Pohivork)** is an electric power transmission system operator in Estonia. Elering was established on 1 November 1998 under the name of Pohivork as an operating unit of the Estonian national power company Eesti Energia.

## Reference letter from Elering AS

At the beginning of 2007, Elering AS purchased 5 sets of bushings with RIP insulation made by Izolyator (Massa Ltd) for servicing 150kV and 220kV power transformers in Estonia.

The deal was forerun by a detailed analysis of the supplier market for this product. The bushings were delivered to the installation facility on time.

Tests run upon commissioning showed excellent quality of your products and full adherence to IEC-60137 standard.

All installed bushings are currently in operation with no failures or non-compliance identified.

Based on the above we confirm a high quality of Izolyator products and look forward to longterm cooperation.

Anton Moltsar Elering AS  
Estonia Power Transformers Expert





**Power Grid Corporation of India Limited (PowerGrid)** is an Indian state-owned electric utilities company headquartered in Gurgaon, India. PowerGrid transmits about 50% of the total power generated in India on its transmission network.

Its subsidiary company, Power System Operation Corporation Limited (POSOCO) handles power management for Power Grid.

PowerGrid also operates a telecom business under the name POWERTEL.



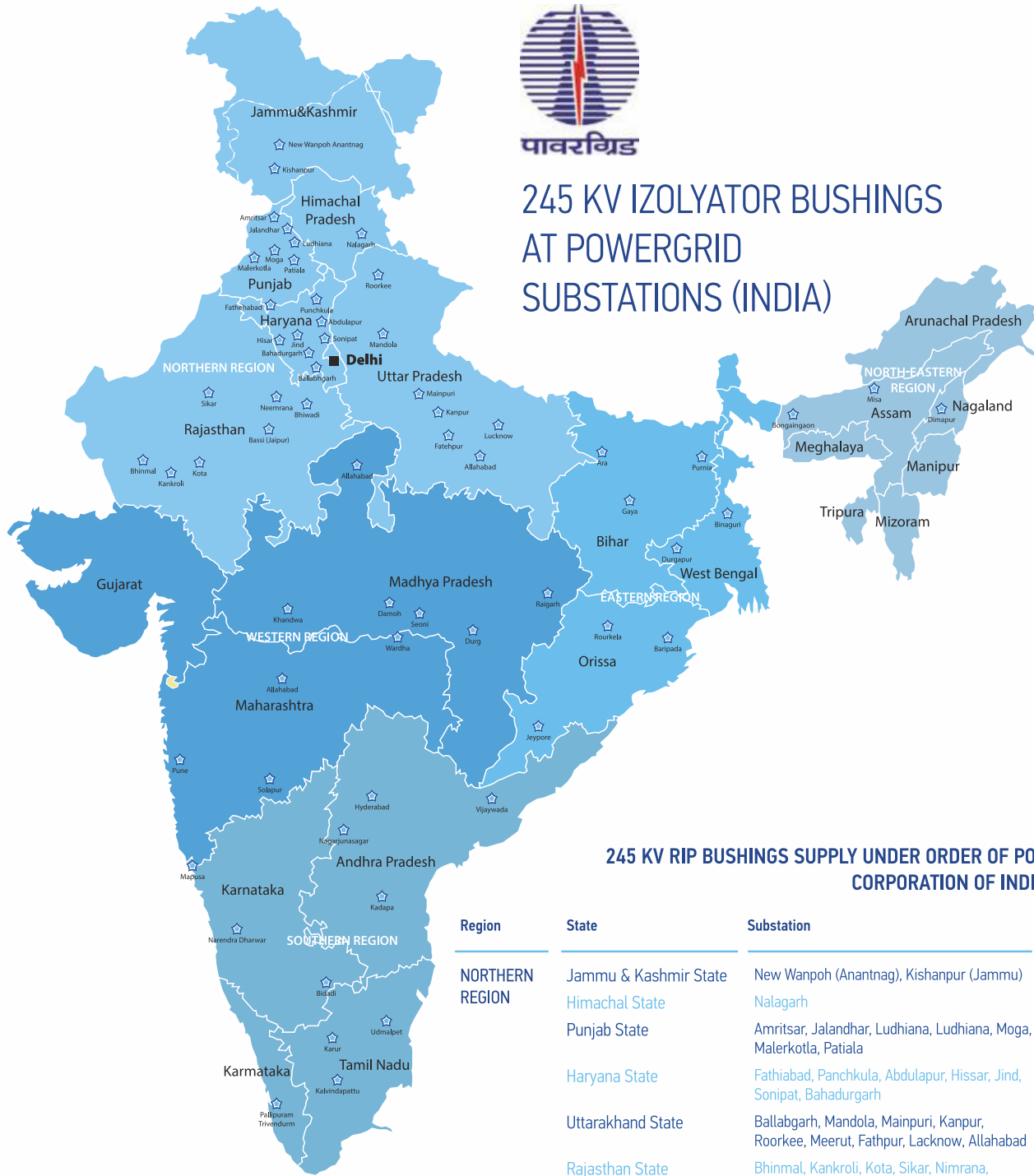
Internet application  
Inspection Call Management  
System on the official website  
of Power Grid  
Corporation of India Limited

Izolyator is an official supplier of OIP and RIP bushings for the needs of Power Grid Corporation of India Limited.

Izolyator enters the official supplier list of completing parts to transformers (9-A and 9-B) in the Inspection Call Management System application of Power Grid Corporation of India Limited.



## 245 KV IZOLYATOR BUSHINGS AT POWERGRID SUBSTATIONS (INDIA)



### 245 KV RIP BUSHINGS SUPPLY UNDER ORDER OF POWER GRID CORPORATION OF INDIA LIMITED

Region	State	Substation	Units, pcs.
NORTHERN REGION	Jammu & Kashmir State	New Wanpoh (Anantnag), Kishanpur (Jammu)	3
	Himachal State	Nalagarh	1
	Punjab State	Amritsar, Jalandhar, Ludhiana, Ludhiana, Moga, Malerkotla, Patiala	11
	Haryana State	Fathiabad, Panchkula, Abdulapur, Hissar, Jind, Sonipat, Bahadurgarh	10
	Uttarakhand State	Ballabgarh, Mandola, Mainpuri, Kanpur, Roorkee, Meerut, Fathpur, Lacknow, Allahabad	15
	Rajasthan State	Bhinmal, Kankroli, Kota, Sikar, Nimrana, Bhiwadi, Jaipur (Bassi)	12
WESTERN REGION	Madhya Pradesh State	Khandwa, Damoh, Seoni, Gwalior	11
	Maharasta State	Aurangabad, Pune, Solapur, Wardha	12
	Goa State	Mapusa	1
	Chhattisgarh State	Kaigarh, Raipur	5
SOUTHERN REGION	Telengana State	Hyderabad, Nagarjunasagar	2
	Karnataka State	Narendra Dharwar, Bidadi	2
	Andhba Pradesh State	Kadapa, Vuaywada	2
	Kerala State	Pallipuram Trivandrum	1
	Tamilnadu State	Kalvindapattu, Karur, Udmalpet	3
EASTERN REGION	Odisha State	Jeypore, Baripada, Rourkela	3
	West Bengal State	Durgapur, Binaguri	3
	Bihar State	Gaya, Ara, Purnia	5
NORTH- EASTERN REGION	Assam State	Misa, Bongaingadn	4
	Nagaland State	Dimapur	1
			107



**Siemens** is a German multinational conglomerate company headquartered in Berlin and Munich. It is the largest engineering company in Europe. The principal divisions of the company are Industry, Energy, Healthcare, and Infrastructure & Cities, which represent the main activities of the company.

The company is a prominent maker of medical diagnostics equipment and its medical health-care division, which generates about 12 percent of the company's total sales, is its second-most profitable unit, after the industrial automation division.

Izolyator company is an official bushing supplier certified by SIEMENS AG

SIEMENS					
Auditreport - CM-BU-Izolyator-Russia_20-June-2012					
Auditor:	K. Wogl M. Kucharski T. Verbitskiy (T. Zavalatova (party))	Date of Audit:	20 June 2012	Class of Audit:	22 June 2012
Participants:	A. Gavrilov, A. Novikov, T. Smirnov, K. Spilkin				
Audit ID:	CM-BU-Izolyator-Russia_20-June-2012	Supplier:	Izolyator-Russia	Product /Process:	Condenser bushings
<b>Scoring general part</b>					
Summary:		82%			
<b>Scoring product related part</b>					
Summary:		84%			
Strong points					
Fast delivery time and standard bushings on stock					
Severe deviations:					
no severe deviations see action list					
Non severe deviations or potentials:					
4 non severe deviations or recommendations see action list					
Audit result:		84.0% fully acceptable			
Comments:					
The audit team propose the approval of Izolyator					
Signum audit team:					
Lead-Auditor	Co-Auditor	Co-Auditor			
Mr. M. Kucharski	Mr. Kucharski	Mr. Verbitskiy			
Signum supplier:					
General Manager	R & D Director	Quality			
Mr. Sergey W. Martynov	Mr. Spilkin	Mr. Mironov			
Date: _____ Page 2/7					
H:\Summary CM-BU_Izolyator Russia_20-June-2012.xlsSummary					





**GE Grid Solutions** is serving customers globally with over 20,000 employees in approximately 80 countries. GE Grid Solutions helps enable utilities and industry to effectively manage electricity from the point of generation to the point of consumption, helping to maximize the reliability, efficiency and resiliency of the grid.



GE Grid Solutions audits  
Izolyator plant

On 2016 GE Grid Solutions audited Izolyator plant. Health and safety systems, environmental management, chemicals handling were audited.

The audit resulted in receipt of Certified GE Grid Solutions supplier status by Izolyator. The status is valid for all branches of GE Grid Solutions around the world.



**Balıkesir Elektromekanik Sanayi Tesisleri A.S. (BEST)** is a manufacturer of high-quality and reliable distribution and power transformers. BEST is the largest national transformer producer in Turkey. Power transformers from BEST have a reputation for quality and reliability in more than 50 countries.

### Evaluation Result and the official report on the audit

BEST		EVALUATION OF SUPPLIER QUALITY QUALIFICATION		Report No: 2017-13
4. Evaluation Result		Supplier Name : MASSA LLC - Isolator Company		
4.1. Non-Conformities inspected during Audit and Corrective-Preventative Actions to be Performed				
4.1.1 Incoming material criterias should be detailed, a Quality Plan for Incoming Material Inspection.				
4.2 Risk analysis should be performed at mechanical production, using of personal protective devices should be encouraged.				
4.2. Result of Evaluation				
4.2.1 Q = <b>%89,85</b> <b>Quality System is Very Good</b>				
Signatures of Auditors				
Halim ÇELİK / Quality Control      Ali Rıza DENİZ / Procurement      Mahmut AKSOY / Design				

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The audit ended with the quality management system, scoring 89.85 % ("very good")



## Test Report from CESI

The busing was designed under the order of the Indian state power grid company Power Grid Corporation of India Limited.



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Centuries-old traditions — state-of-the-art technologies

**IZOLYATOR'S SALES TEAM EXPRESSES A DEEP INTEREST,  
INTENTION AND READINESS TO SET UP COOPERATION  
IN ANY CONVENIENT TO YOU FORM**

### **THINKING OF BECOMING A PARTNER?**

We will provide complete information about commercial, organizational, technical and other aspects of our company activities.

### **NEED MORE INFORMATION?**

We will provide all materials of interest by e-mail or in hard copy at your first request.

### **WOULD YOU LIKE TO VISIT THE PLANT?**

We will arrange an informative plant tour to show all production stages.

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##### **Izolyator Company**

(Massa LLC)

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