

REFERENCES



Power Generation

Thermal, nuclear
and hydro energy



Power Transmission

Long distance, regional,
municipal power lines



Power Consumption

Industry, transportation,
oil and gas

MISSION. VISION. SOCIAL RESPONSIBILITY



Mission

Participating in a stable and reliable energy supply, we help everyone to realize their potential.



Vision

We aim to be a global leader of the industry and help to fill the world with energy and light, creating a high-quality charge in various parts of the planet with smart and advanced solutions in the electric power industry.



Social responsibility

We build our social policy on the basis of a harmonious combination of the interests of the company owners, employees, the local community and society with strict observance of the laws of the Russian Federation.



The history of high-voltage bushings development in Russia is inseparably associated with Izolyator plant. In its century-long history, the plant has produced over 620 thousand high-voltage bushings, operating at the overwhelming majority of power facilities in Russia and neighboring countries as well as 30 more countries in the world.

One of the key events for Izolyator was receipt of the leading science and technology partner to the Russian National Committee (RNC) of the International Council on Large Electric Systems — CIGRE (Conseil International des Grands Réseaux Électriques) status. That is the largest international nongovernment and noncommercial organization in power industry.

Today Izolyator has become a research base for CIGRE National Study Committee D1 “Materials and Emerging Test Techniques”. Collaboration with RNC CIGRE allows us to bring Izolyator's work to a whole new level in the interests of all global market players and for Russia's energy system development in general.

All Izolyator's success became possible thanks to the well-coordinated work of our highly professional team and a strong support from our partners. We shall do our best to fulfill the obligations in high-voltage bushings production and after sales support of our customers.

Century-old traditions — state-of-the-art technologies — these words have become a motto for those employed at the plant, which is justly considered a global leader in development and production of high-voltage bushings.

Dr. Alexander Slavinsky

Chief Executive Officer of Zavod Izolyator LLC

Chairman of Board of Massa Izolyator Mehru Pvt. Ltd.

Head of CIGRE National Study Committee D1

Vice-President of AES RF

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EVRAZ	55		



THE MOST EXPERIENCED
HIGH-VOLTAGE BUSHINGS
MANUFACTURER
IN THE WORLD

OVER **125** YEARS
of EXPERIENCE



Facts and achievements



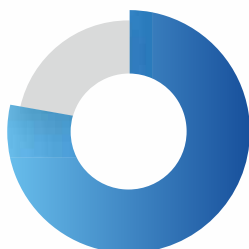
PRODUCTION CAPACITY



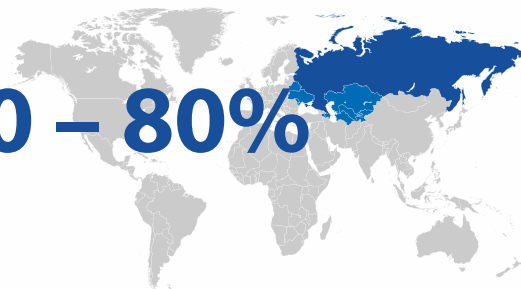
12 000 BUSHINGS PER YEAR



MARKET SHARE
IN RUSSIA AND NEIGHBORING
COUNTRIES



70 – 80%



STAFF



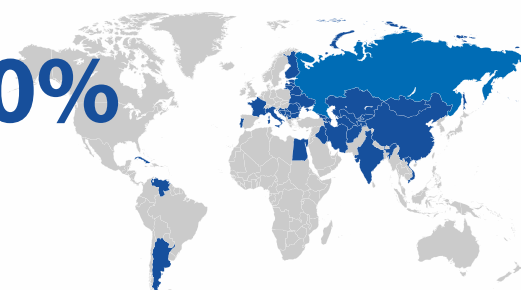
450 STAFF MEMBERS



EXPORT SHARE



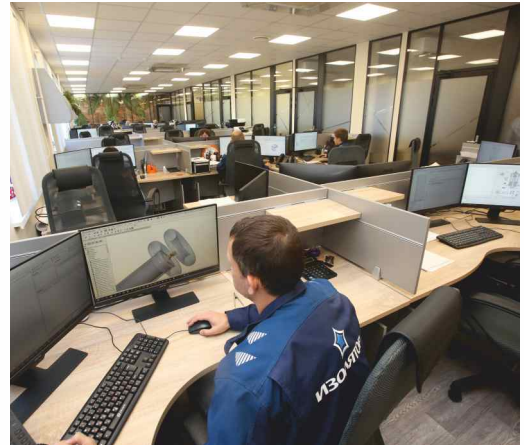
20%



DESIGNING. PRODUCTION. MAINTENANCE

R&D Center

- creation of new designs of insulating equipment
- development of new production technologies
- carrying out research activities and prototyping
- serial products upgrades
- highly qualified technical service
- complex diagnostics
- warranty and post-warranty repair
- consulting technical services of customers



Production of Bushings

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



High-Voltage Cable Accessories Production

- proprietary design of stress cones and actuating bodies of cable accessories
- modern hi-tech equipment from the leading global OEMs
- complete cycle including production, testing, training in installation and maintenance of cable accessories
- manufacture of cable accessories for a wide range of copper and aluminum cables for 185 to 2500 mm² conductor cross-section

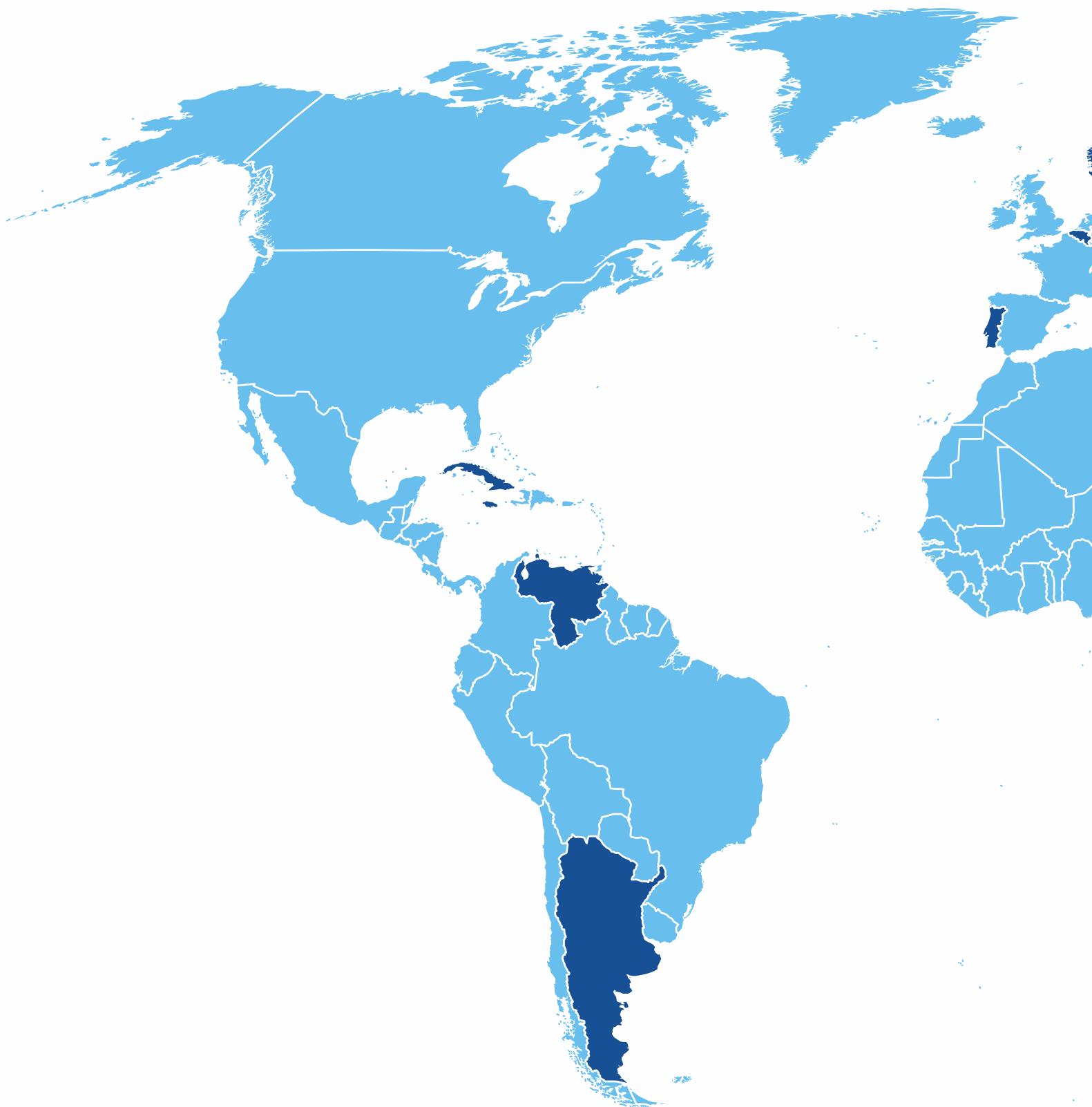


Test Center

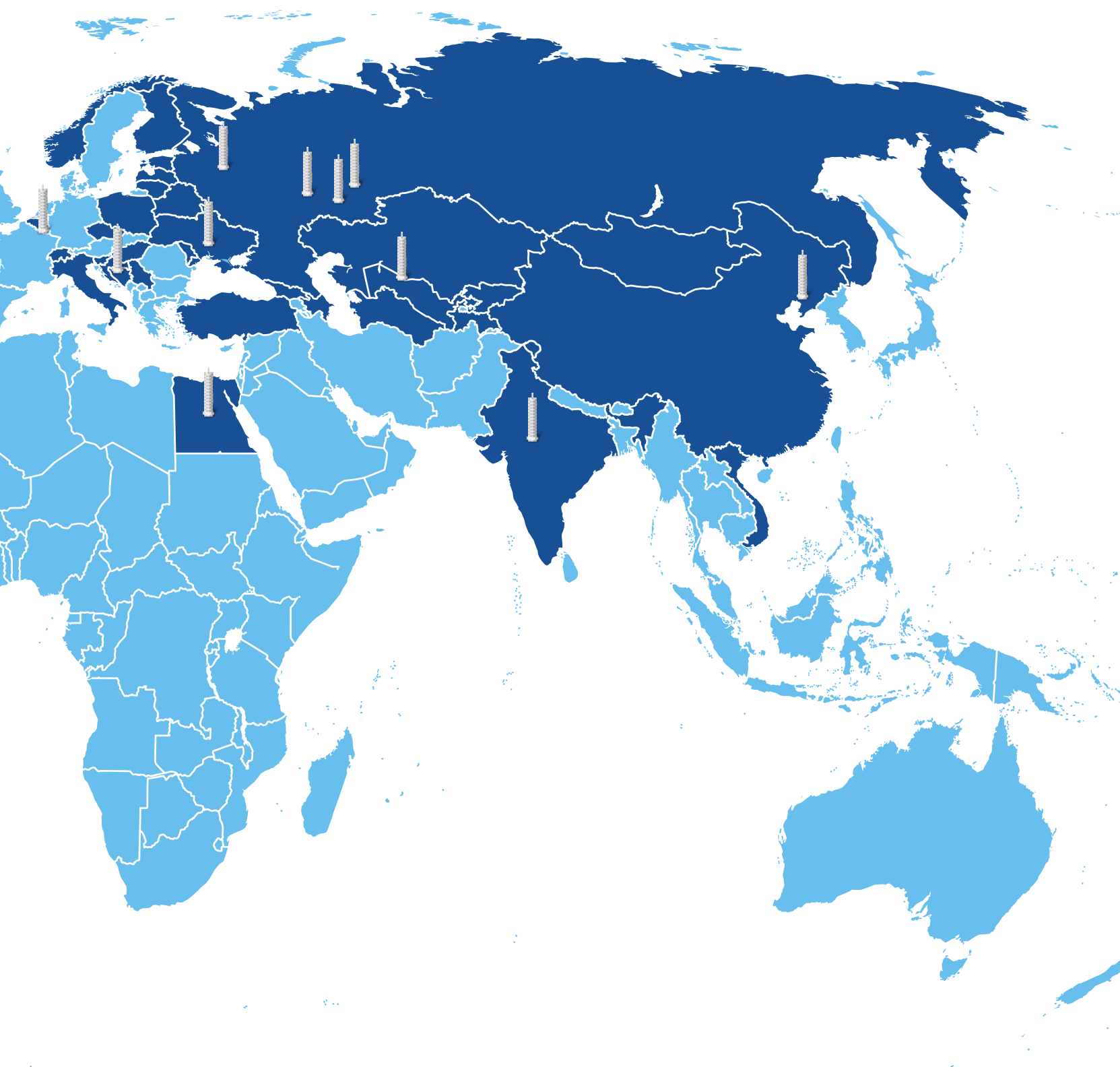
- testing under alternating current up to 1200 kV
- testing under direct current up to ± 1600 kV
- testing by full and chopped lightning impulse 1.2/50 μ s
- testing by switching impulse 250/2500 μ s
- testing of insulation materials and prototypes



GEOGRAPHY OF DELIVERIES



	Abkhazia		Belgium		Egypt		China
	Azerbaijan		Belarus		India		Cuba
	Argentina		Venezuela		Italy		Latvia
	Armenia		Vietnam		Kazakhstan		Lithuania
	Bulgaria		Georgia		Kyrgyzstan		Mexico



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

REFERENCES OF POWER GRID SYSTEMS IN RUSSIAN FEDERATION



Rosseti Group is a power grid operator in Russia and one of the largest grid companies in the world.



Rosseti Group is a holding company that manages subsidiaries and affiliated Interregional distribution grid companies (IDGC) and Rosseti FGC UES company.



Rosseti FGC UES company 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. Rosseti FGC UES is the largest in the world public grid company

IDGC — 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





Conclusions on the compliance of RIP bushings with the requirements of the Rosseti Group

Equipment:

- high-voltage bushings of the GKT type for the highest operating voltages from 24 to 172 kV inclusively for transformers, climatic modification O, location category 1 in accordance with TU 3493-001-31317133-2008 (rev. 7);
- high-voltage bushings of GK type for the highest operating voltages from 252 to 550 kV, climatic modification O, location category 1 in accordance with TU 3493-002-31317133-2008 (rev. 19);
- high-voltage bushings of the GKT type for the highest operating voltage of 800 kV, climatic modification O, location category 1 in accordance with TU 3493-008-31317133-2010 (rev. 6);
- high-voltage bushings of the GKV type for the highest operating voltages from 40.5 to 252 kV for circuit breakers, climatic modification O, location category 1 in accordance with TU 3493-003-31317133-2008 (rev. 4);
- high-voltage wall bushings of the GKL type for the highest operating voltages from 72.5 to 252 kV, climatic modification O, location category 1 in accordance with TU 3493-005-31317133-2009 (rev. 4).

Applicant:

limited liability company Massa (Massa LLC, 143581, Moscow region, Istra district, Pavlovskaya Sloboda, Lenin st., 77).

Manufacturer:

limited liability company Massa (Massa LLC, 143581, Moscow region, Istra district, Pavlovskaya Sloboda, Lenin st., 77).

The products **meet** the technical requirements of PJSC Rosseti.

The products are **recommended** for use at the facilities of subsidiaries and affiliates of PJSC Rosseti.

Head of the Production Control
Directorate of Rosseti Group
A. G. Kartushin



Conclusions on the compliance of RIN bushings with the requirements of the Rosseti Group

Equipment:

- RIN bushings for the highest operating voltage up to 172 kV inclusive for transformers, climatic version O, location category 1 according to TU 3493-014-31317133-2017;
- RIN bushings for the highest operating voltage from 252 up to 550 kV inclusive for transformers, climatic version O, location category 1 according to TU 3493-015-31317133-2017;
- RIN bushings for the highest operating voltage from 40.5 up to 252 kV inclusive for switches, climatic version O, location category 1 according to TU 3493-016-31317133-2017;
- wall RIN bushings for the highest operating voltage from 73 up to 252 kV inclusive, climatic version O, location category 1 according to TU 3493-017-31317133-2017.

Applicant:

Massa LLC (77, Lenin street, Pavlovskaya Sloboda, Istra municipality, Moscow region, Russian Federation, 143581).

Manufacturer:

Massa LLC (77, Lenin street, Pavlovskaya Sloboda, Istra municipality, Moscow region, Russian Federation, 143581).

Meet the technical requirements of Rosseti PJSC.

Recommended for use at the facilities of subsidiaries and dependent companies of Rosseti PJSC.

Head of the Office for Coordination
of Construction Control and
Procurement of the Capital
Construction Department of Rosseti
Group
A. V. Yuriev



Certificates of the Russian Energy Complex Voluntary Certification System

Certification body:

registration No. ROSS.RU.31313.04ZHUG0.OS10.02
Joint Stock Company Research and Development Center of the Federal Grid Company of the Unified Energy System Substation certification body, Moscow, Kashirskoe highway, 22, building 3.

This certificate certifies that the product:

- bushings with RIN-insulation for the highest operating voltage up to 172 kV inclusive for transformers, climatic version O, location category 1 in accordance with TU 3493-014-31317133-2017;
- bushings with RIN-insulation for the highest operating voltage from 252 to 550 kV inclusive for transformers, climatic version O, location category 1 in accordance with TU 3493-015-31317133-2017;
- bushings with RIN-insulation for the highest operating voltage from 40.5 to 252 kV inclusively for circuit breakers, climatic version O, location category 1 in accordance with TU 3493-016-31317133-2017;
- wall bushings with RIN-insulation for the highest operating voltage from 73 to 252 kV inclusive, climatic version O, location category 1 in accordance with TU 3493-017-31317133-2017.

Complies with the requirements of regulatory documents: STO 56947007-29.080.20.088-2011.

Manufacturer:

Limited Liability Company Massa (Massa LLC). Address: 143581, Moscow region, Istra district, Pavlovskaya Sloboda, st. Lenin, 77.
TIN 5017013857

Certificate issued:

limited liability company Massa (Massa LLC). Address: 143581, Moscow region, Istra district, Pavlovskaya Sloboda, st. Lenin, 77.
TIN 5017013857

Based on the examination report prepared by the OS PS and approved by the Central Body of the Voluntary Certification System Russian Energy Complex, Moscow, Kashirskoe shosse, 22, building 3.

Федеральная Сетевая Компания Единой Энергетической Системы

19.01.2015 № RB-034

To: Chief Manager, (CS-G8),
Power Grid Corporation of India Ltd.,
Saudamini, Plot No.-2, Sector-29, Gurgaon-122001, Haryana, India.
Tel.: +91-124-2571700-19 (Extn. 2348/3325);
Fax.: +91-124-2571831.

Date: 19th January 2015

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 252kV/2000A, 252kV/2500A, with internal solid resin impregnated paper (RIP) insulation which have been developed, designed, manufactured, supplied, installed by Massa LLC during the period from Y2005 till December 2011 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 and work satisfactory till now.

Type of Bushing	Factory drawing	Year of commissioning	Q-ty, pcs	Total Q-ty
252kV /2000A (transformer)	IBYE.686353.115	2005-2011	563	
	IBYE.686353.113			
252kV /2500A (transformer)	IBYE.686353.213			
	IBYE.686353.213-01			
	IBYE.686353.116			
	IBYE.686353.114			
	IBEIO.686352.002			
	IBEIO.686352.003			
	IBEIO.686352.008			
	IBYE.686353.119			
				563

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. 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 strategic partner, wishing You prosperity and further innovative development of Energy Transmission and Distribution in Russia and Worldwide!

Your sincerely,

Deputy Chairman of Board
Chief Engineer of JSC FGC UES

V. P. Dikoy

FGC UES Reference Letter on 252 kV RIP Bushings

For many decades, since the inception of the electric power industry in Russia to the present day, Massa LLC — Izolyator plant has been a regular supplier of high-voltage bushings for the needs of our company.

Below, please see for your information the list of high-voltage bushings 252 kV / 2000 A, 252 kV / 2500 A with internal solid RIP-insulation, which were developed, designed, manufactured and supplied by Massa LLC in the period from 2005 to December 2011 to branches of Federal Grid Company of the Unified Energy System (FGC UES): MPS North-West, MPS Ural, MPS East, MPS Center, MPS Volga, MPS Siberia, MPS Western Siberia, MPS South, and operate satisfactorily to the present time.

We hereby confirm the high quality of the products, supplied by Massa LLC, full compliance with the requirements of IEC 60137, GOST 10693 and regulatory documents. All of the above high-voltage bushings have passed all tests and are successfully operating to the present day. We observed no problems with installation, commissioning and maintenance.

Successful experience in the development of partner relations between Massa LLC and FGC UES PJSC allows us to recommend Massa LLC — Izolyator plant as a reliable partner in the production and supply of high-voltage bushings for high (110, 220, 330 kV) and extra-high voltage levels (420, 550 kV etc.).

FGC UES PJSC confirms that LLC Massa — Izolyator plant is a strategic partner and sends wishes of further prosperity and innovative growth in order to develop Power Distribution and Transmission sector on the territory of the Russian Federation and other countries of the world!

Deputy Chairman of the Board —
Chief Engineer
V. P. Dikoy

Федеральная
Сетевая Компания

Единой
Энергетической Системы

03.07.2015 1975

Атн. of
Power Grid Corporation of India
Ltd., Saudamini, Plot No.-2,
Sector-29, Gurgaon-122001,
Haryana, India
Tel. +91-124-2571700-19
(Extn. 2348/3325);
Fax.: +91-124-2571831

TO WHOM IT MAY CONCERN

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, 800kV/315A**, 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.

Product Description	Factory Drawing	Year of commissioning	Factory Serial No.	Qty 2015	Total Qty
500kV/315A (for reactors)	ИВУЕ.686355.128	2009	П-21771 П-21881 П-18841 П-22497 П-21234 П-21273	6	

		2010	П-26486 П-26534 П-27972 П-25791 П-21928	5	
		2011	П-32977 П-33077 П-34593 П-34178 П-23048 П-24355 П-25186 П-31881	8	
		2012	П-35175 П-42478	2	
		2013	П-34036 П-46086 П-53515 П-53516 П-54083 П-50548 П-50547 П-53439 П-49051 П-49050 П-49799	11	
500kV/1600A (transformer)	ИВУЕ.686355.173	2011	П-30608 П-39738	4	
		2012	П-45051 П-46008 П-46954 П-44884 П-45212 П-43380 П-45566	7	
		2013	П-40271	1	
500kV/2500A (transformer)	ИВУЕ.686354.001 ИВУЕ.686354.002 ИВУЕ.686355.172 ИВУЕ.686355.146-01	1999	П-48461	1	
		2005	П-49959	1	
		2008	П-06227 П-10840 П-12457 П-13488 П-15598 П-18544 П-08181 П-13794 П-12932 П-12741	10	
		2009	П-19730 П-19998 П-19461	3	
		2010	П-24454 П-26803 П-22900	3	
		2011	П-13385 П-39932 П-40061 П-43847 П-22158 П-22850 П-24228	7	
		2012	П-42248 П-46667 П-46514 П-41967 П-41215 П-40933 П-41427 П-39607 П-42006 П-41368 П-41509	11	
		2013	П-54602 П-50428 П-54432 П-54433 П-51960 П-49090 П-52074 П-52210 П-48863 П-43036 П-52078 П-50381	12	
800kV/315A (for reactors)	ИВУЕ.686355.185	2013	П-52983 П-52372	2	
		2014	П-48179	1	95


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, 800 etc.).

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

Your sincerely,

Deputy Chairman of the Board –
chief engineer

 V.P. Dikoy

FGC UES Reference Letter on 500 and 800 kV RIP Bushings

For many decades, since the inception of the electric power industry in Russia to the present day, Massa LLC — Izolyator plant has been a regular supplier of high-voltage bushings for the needs of our company.

Below, please see for your information the list of high-voltage bushings 500 kV / 315 A, 500 kV / 1600 A, 500 kV / 2500 A, 800 kV / 315 A with internal solid RIP-insulation, which were developed, designed, manufactured and supplied by Massa LLC to branches of Federal Grid Company of the Unified Energy System (FGC UES): MPS North-West, MPS Ural, MPS East, MPS Center, MPS Volga, MPS Siberia, MPS Western Siberia, MPS South, and operate satisfactorily to the present time.

We hereby confirm the high quality of the products, supplied by Massa LLC, full compliance with the requirements of IEC 60137, GOST 10693 and regulatory documents. All of the above high-voltage bushings have passed all tests and are successfully operating to the present day. We observed no problems with installation, commissioning and maintenance.

Successful experience in the development of partner relations between Massa LLC and FGC UES PJSC allows us to recommend Massa LLC — Izolyator plant as a reliable partner in the production and supply of high-voltage bushings for high (110, 220, 330 kV) and extra-high voltage levels (420, 550, 800 kV etc).

FGC UES PJSC confirms that LLC Massa — Izolyator plant is a strategic partner and sends wishes of further prosperity and innovative growth in order to develop Power Distribution and Transmission sector on the territory of the Russian Federation and other countries of the world!

Deputy Chairman of the Board —
Chief Engineer
V. P. Dikoy

Federal Grid Company of Unified Energy System

18.06.2014 FA-2946

JOINT-STOCK COMPANY "FGC UES"
 125000, Moscow, Russia
 phone: +7 495 710 5555, fax: +7 495 710 5555
 e-mail: info@fgc-ues.ru, www.fgc-ues.ru

Att. of
 Power Grid Corporation of
 India Ltd., Saudamini, Plot No.-
 2, Sector-29, Gurgaon-122001,
 Haryana, India.
 Tel. +91-124-2571700-19 (Extn.
 2348/3325); Fax: +91-124-
 2571831.

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/2000A, 500kV/2500A, 500kV/315-1000A and 1150kV/1250A with internal oil - impregnated paper (OIP) insulation which have been developed, designed, manufactured, type tested, supplied, installed by **Massa LLC** during the last 30 years 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	Factory Serial No.	G-ty, pcs.	Total Q-ty.
500kV/315A (for reactor)	213 800 034	1972	C-41081	1	80
		1983	58741	1	
		1985	T-45495	1	
		1988	T-91118 29552 57733	3	
		1996	U-57642	1	
		2000	U-70257 U-13651 U-72576 U-71799	4	
		2001	U-71685 U-53895	2	
		2002	U-48759(93r.a.) U-63207 U-74155 U-71993 U-76710 U-78380 U-78935 U-76385	8	
		2003	U-24197(96r.a.) U-82859 U-83167 U-57540 T-1543 U-81608 U-91689	7	
		2004	U-81799 U-84058 U-84993 U-60252 U-85518 U-87251 U-87936	7	
		2005	U-90319 U-82523 U-80714 U-38793 U-38282(91r.a.) U-91214 U-89635 U-83759 U-82035 U-82293 U-83524 U-91688 U-89650 U-89682 U-89850 C-98645(78r.a.)	16	
		2006	U-95976 U-89690 U-96195 U-82653 U-94921 U-86180 U-98021 U-98309	8	
		2007	U-59988 (95r.a.) U-93511 U-05679 73140 U-94527	5	
		2008	U-89909 U-83467 U-15148 U-15344 U-16494 U-95519 U-07814 48921 73141 U-07994	10	
		2009	U-17704 U-18015 U-18358	3	
500kV/2000A (transformer)	IBEO 686344 005-09	1992	U-16804 U-29371	2	90
		1994	U-25699 U-53032	2	
		1997	30660 30662 59237	3	
		1998	U-43958	1	
		2000	U-37461 U-31711 T-93040 U-79349	4	
		2001	U-38879 T-96613 U-76701 131299 131300 131301 U-10200 C-90910 U-58098	9	
		2002	U-38700 U-55328 U-65996 U-79516 U-79845	5	
		2003	U-33850 U-67951 T-14008 T-69927 U-34605 U-82410	6	
		2004	U-85728 U-81882 U-31709 T-83370 U-86626	5	
		2005	U-80007 U-26690(78r.a.) U-27929(78r.a.) U-90038 U-90040 U-91657 U-92136 89993 T-39096 U-58869 U-7832	11	
		2006	U-43294(86r.a.) T-19738 U-59185(95r.a.) U-93403 U-96029 U-95822 U-96030	7	
		2007	U-04187 U-04293 U-05711 U-88270 T-54002 T-66899 C-54385(73r.a.) U-05710 T-49578	9	
		2008	U-03886	1	
		2009	U-56375 U-6953 U-07776	3	

		1992	U-16804 U-29371	2	
		1994	U-25699 U-53032	2	
		1997	30660 30662 59237	3	
		1998	U-43958	1	
		2000	U-37461 U-31711 T-93040 U-79349	4	
		2001	U-38879 T-96613 U-76701 131299 131300 131301 U-10200 C-90910 U-58098	9	
		2002	U-38700 U-55328 U-65996 U-79516 U-79845	5	
		2003	U-33850 U-67951 T-14008 T-69927 U-34605 U-82410	6	
		2004	U-85728 U-81882 U-31709 T-83370 U-86626	5	
		2005	U-80007 U-26690(78r.a.) U-27929(78r.a.) U-90038 U-90040 U-91657 U-92136 89993 T-39096 U-58869 U-7832	11	
		2006	U-43294(86r.a.) T-19738 U-59185(95r.a.) U-93403 U-96029 U-95822 U-96030	7	
		2007	U-04187 U-04293 U-05711 U-88270 T-54002 T-66899 C-54385(73r.a.) U-05710 T-49578	9	
		2008	U-03886	1	
		2009	U-56375 U-6953 U-07776	3	
500kV/2000A (transformer)	IBEO 686344 005	1988	56838	1	
	IBEO 686344 005-09	1995	U-58007 U-58348	2	
	IBEO 686344 010	1998	U-66623	1	
	IBEO 686344 028	2000	U-73836 U-71528	2	
		2001	U-74698 U-77747 U-77361 U-74634	4	
		2002	U-76125 U-76745 U-78556 U-80112	6	
			U-80375 U-80469	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 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

FGC UES Reference letter on oil impregnated paper insulated bushings

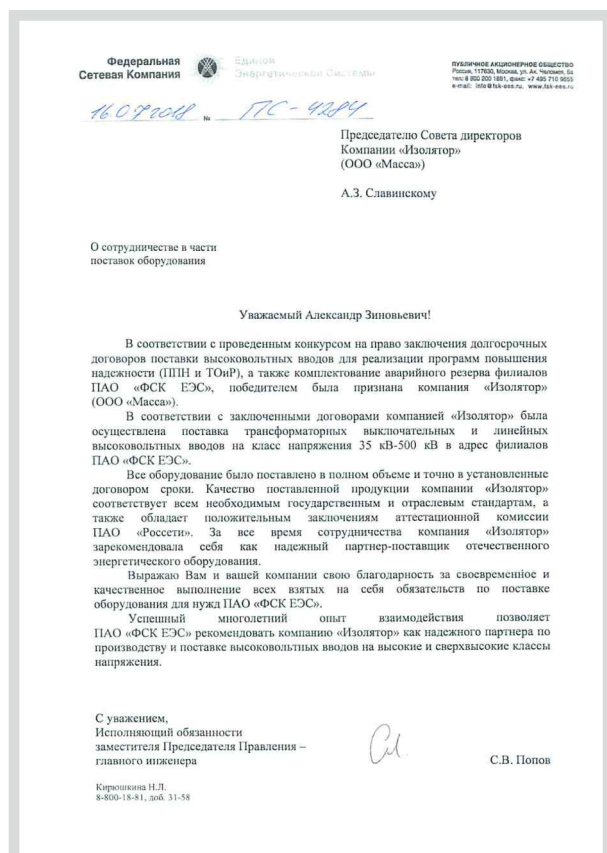
In the course of many decades from the moment of appearance of Electrical Power Sector in Russian Federation and up to the present day **Massa LLC – Izolyator** factory – remains our regular supplier of high-voltage bushings for the needs of our Company. Below herewith we are kindly informing You on 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!

Deputy Chief Engineer of JSC FGC UES
A. M. Epifanov



Reference of Federal Grid Company

As result of our announced tender for long-term high-voltage bushings supply agreement under the maintenance efficiency programs and reserve stock replenishment at FGC UES PJSC's branches, Izolyator (Massa Ltd) was named the winner.

In connection with signed agreements, Izolyator carried out shipments of 35 - 500 kV transformer and wall HV bushings to the branches of FGC UES PJSC.

All the above mentioned equipment was timely delivered in full as pertains to the agreement. The product quality of Izolyator fully meets all state and sectoral standards and is supported with an affirmative statement of the attestation board of Rosseti PJSC. Over our cooperation, Izolyator has proved a reliable partner and supplier of domestic power equipment.

Let me express our gratitude for timely and quality fulfilment of all obligations in delivery of equipment for the needs of FGC UES PJSC to you and the whole team.

Our long-standing successful experience of interaction allows FGC UES PJSC to recommend Izolyator as a reliable partner in production and delivery of high and ultra-high voltage HV bushings.

Acting Deputy Chairman of the Board
 Chief Engineer
 S. V. Popov



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 252–1200 kV substation equipment

Main power system of Western Siberia (MPS Western Siberia) is a branch of Rosseti 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





от 20.10.2019 № 44/2/2629

Филиал ПАО «ФСК ЕЭС» – Магистральные электросетевые системы Западной Сибири
 Россия, 629005, г. Новокузнецк, ул. Гусевская, д. 4
 тел.: +7 (3462) 77-75-06, факс: +7 (3462) 77-73-01
 e-mail: mes@fsk-ues.ru, www.fsk-ues.ru

Генеральному директору
 ООО «Масса»
 С.Б. Моисееву


О направлении отзыва о высоковольтных вводах с RIP-изоляцией классом напряжения до 500кВ

Уважаемый Сергей Борисович!

В ответ на письмо от 28.10.2019 № 07/616, сообщая что филиал ПАО «ФСК ЕЭС» - МЭС Западной Сибири приобрел у компании «Изолятор» высоковольтные вводы с RIP-изоляцией классом напряжения до 500кВ.

За период эксплуатации на предприятиях МЭС Западной Сибири оборудование зарекомендовало себя как надежное и способное работать в разных климатических условиях. Претензий к качеству изготовления их нет.

Первый заместитель Генерального
 директора – главный инженер



В.В. Конишевский

Крашенинни И.В.
 (3462) 77-74-95

Reference Letter of Main power system of Western Siberia

In response to the letter dated 28.10.2019 No. 07/616, I would like to inform you that the branch of FGC UES PJSC — Main power system of Western Siberia purchased high-voltage RIP bushings with up to 500 kV voltage class from Izolyator.

During the period of operation at the enterprises of Main power system of Western Siberia, the equipment has proved reliable and capable of operating in different climate conditions. There are no complaints about the manufacturing quality.

First Deputy General Director —
 Chief Engineer
 V. V. Konishevsky


Main power system of the Centre (MPS Centre) is a branch of Rosseti 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 Main power system of the Centre

On your request dated October 22, 2019 No. 07/603, I hereby confirm that we have a positive experience of operating bushings up to 750 kV with RIP insulation manufactured by Massa LLC.

First Deputy General Director —
Chief Engineer
A. V. Gorbunov



от 20.11.2019 № 07/603

Офисная (ПАО «ФСК ЕЭС» – Магистральная электрическая сеть Центра России, 121153, Москва, ул. Ботаническая д. 4-б/этаж 5
тел: +7 (495) 962 87 11, email: mps@mps-centra.ru, www.fsk-ees.ru

Директору направления стратегических продаж
ООО «Масса»


А.А. Савинову

Об опыте эксплуатации вводов

Уважаемый Александр Александрович!

На Ваш запрос от 22.10.2019 № 07/603 подтверждаю положительный опыт эксплуатации вводов напряжением до 750 кВ с RIP-изоляцией производства ООО «Масса».

Первый заместитель генерального директора –
главный инженер



А.В. Горбунов

Пашинков А. А.
(495) 962-85-54

Main power system of South (MPS of South) is a branch of Rosseti 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 Main power system of 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 oilvolumes.

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.

First Deputy General Director
 Chief Engineer
 G. N. Kovtun

07:00/ ROS IGT В ТЕЛ: 8 8793 369918 22 ОКТ. 2014 09:30 СТР:1

Федеральная Сетевая Компания Единей Энергетической Системы

И.О. Подпись: *Панфилов А.А.* *Сидельцев А.А.*

Председателю Совета директоров ООО «Масс»-завод «ИЗОЛЯТОР»

А.З.Славинскому

Факс: +7(495) 727-27-66
 Тел: +7(495) 727-33-11

Уважаемый Александр Зиновьевич!

На подстанциях МЭС Юга в рамках выполнения плановых программ, программ технического обслуживания и ремонта оборудования, пополнения аварийного резерва были приобретены и ООО «Масс» - завод «Изолятор» и заменены высоковольтные вводы с RIP - изоляцией, изготовленные по современным технологиям.

В период с 2012 по 2014гг их количество составило порядка 214 шт, с различным классом напряжения от 110кВ до 500кВ, как трансформаторно-реакторного оборудования, так и для масляных выключателей с большим объемом масла.

За период эксплуатации на ПС МЭС Юга вышеуказанное оборудование зарекомендовало себя как надежное, способное работать в разных климатических условиях, претензий по качеству их изготовления в настоящее время нет.

Считаем, что данное оборудование обладает достаточно высокой эксплуатационной надежностью и при дальнейшей реализации различных программ, нет возражений по приобретению.

МЭС Юга планирует закупить в 2015г. порядка 10 вводов разных классов напряжения.

Первый заместитель генерального директора -
 Главный инженер *Г.Н. Ковтун* Г.Н. Ковтун

Телефон С.В.
 22-05, (8793) 36-99-83

В.Н.Ж. с 22.10.14.

Main power system of North-West (MPS of North-West) is a branch of Rosseti 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 Main power system of 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 – MPS of 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. Shakhov

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



Открытое Акционерное Общество
Межрегиональная распределительная сетевая компания Сибири

Филиал «Кузбассэнерго - региональные электрические сети»
24.02.2013 № 04/02.2/2013

На № _____ От _____

Генеральному директору
ЗАО «НБЭ»
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 «Иновации и бизнес в энергетике» высоковольтные вводы производства ООО «Масса»:

- ввод ГКВШ-60-126/2000 01 (ИВУЕ.686352.132) – 4 шт.
- ввод ГКТШ-60-126/800 01 (ИВУЕ.686352.103) – 3 шт.

Претензий по качеству вышеуказанной продукции нет.

Заместитель генерального директора-директор филиала
А. Ю. Гринь

Иванов В.И.
(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

Krasnoyarskenergo, branch of Rosseti Siberia company, 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.



<p>Открытое Акционерное Общество</p>	 <p>Межрегиональная распределительная сетевая компания Сибири</p>	<p>Филиал «Красноярскэнерго» 660021, Российская Федерация, Красноярский край г. Красноярск, ул. Богдана, д. 144Б Тел. 8 (391) 256-66-56, факс: 8 (391) 256-66-77 E-mail: 8@krsk.ru</p>
<p>Филиал «Красноярскэнерго»</p> <p><u>31.01.2013</u> № <u>К.Б/38/1487-458</u></p> <p>на № _____ от _____</p>		
		<p>Генеральному директору ЗАО «Новации и бизнес в энергетике» К.А. Руденко</p>
<p>О предоставлении информации</p>		
<p>Уважаемый Константин Александрович!</p>		
<p>Настоящим сообщаем, что начиная с 2011 года филиалом ОАО «МРСК Сибири» – «Красноярскэнерго» было куплено и введено в эксплуатацию вводов производства ООО «Масса» в количестве 118 шт., из них выключательные до 35 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.</p>		
<p>До настоящего времени претензий по данной продукции нет.</p>		
<p>Заместитель начальника департамента логистики и МТО</p>		 <p>А.А. Ранский</p>
<p>Вручен В.Н. (391)259-37-74+мн3-348</p>		<p>№ 038416</p>

Reference Letter of Krasnoyarskenergo

I hereby inform you that since 2011, Krasnoyarskenergo, a branch of IDGC of Siberia JSC, has purchased and put into operation 118 bushings produced by Massa LLC, namely 42 pcs for switches up to 35 kV, 110 kV transformer bushings in the amount of 29 pcs and 110 kV wall bushings in the amount of 9 pcs.

We have so far not registered any complaints about those products.

Deputy Chief
Logistics and Procurement
Department
A. A. Ransky

Altaienergo – branch of Rosseti Siberia company 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 longest in Russia).



Открытое
Акционерное
Общество

Межрегиональное
распределительное сетевое
компания Сибири

Филиал «Алтайэнерго»

04.02.18 № 01/18/348-1804

Филиал ОАО «МРСК Сибири» - «Алтайэнерго»
656002, Республика Алтай, Алтайский край,
г. Барнаул, ул. П.Е. Муромца, д. 16
тел.: 8 (3852) 56-43-55; факс: 8 (3852) 36-06-28

Генеральному директору
ЗАО «Новации и бизнес в энергетике»
К.А. Руденко
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 «Новации и бизнес в энергетике» высоковольтных вводов производства ООО «Масса» в количестве 127 штук. Претензий по качеству не выявлено, отказов продукции не зарегистрировано.

Начальник ДЛ и МТО

О.В. Туболец

Копия Е.Н.
(3852) 56-42-94

008380

Reference Letter of Altaienergo

Herewith please be informed that Altaienergo, branch of IDGC of Siberia, 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. Tubolets

Rosseti Center and Volga Region 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 IDGC of Centre and Volga Region

Massa Ltd has been a regular supplier of 35–110 kV bushings to the branches of IDGC of Centre and Volga Region 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

Rosseti 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 IDGC of North West

In response to Your letter ref. No. 01/312 of 08.11.2013, I inform You that disturbances in work of IDGC 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

 		ОТКРЫТОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО ИНТЕРНУЦИОНАЛЬНАЯ РАСТРУЖДЕЛИТЕЛЬНАЯ КОМПАНИЯ «ОАО ИРСК СЕВЕР-ЗАПАД» «ОАО ИРСК СЕВЕР-ЗАПАД» Полное наименование: «ОАО ИРСК СЕВЕР-ЗАПАД» Полное наименование: «ОАО ИРСК СЕВЕР-ЗАПАД» Полное наименование: «ОАО ИРСК СЕВЕР-ЗАПАД»
На № _____ от _____		Председатель Совета директоров ООО «Масса» А.З.Славянский
О предоставлении безвозмездной поставки продукции ООО «Масса»		Россия, 143581, Московская область, Истринский район, с. Павловская Слобода, ул. Ленина, 77, ООО «Масса» Тел. (495) 727-3311 Факс (495) 727 2766 E-mail: mosizolyator@mosizolyator.ru www.mosizolyator.ru

Уважаемый Александр Зиновьевич!

В ответ на Ваше письмо от 08.11.2013 за № 01/312 сообщу, что при имеющихся местах нарушений 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.

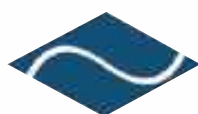
Выражаю Вам свою благодарность за оказанную поддержку в работе по устранению нарушений, вызванных неблагоприятными погодными условиями в октябре 2013 года.

Заместитель генерального директора
по техническим вопросам – главный инженер  А.Ю.Горохов

Коршунов П.С.
(812) 305-1010 доб.380.

код. № _____
 « _____ » _____ 20 ____ г.
 подпись _____

References of transformer-building plants in Russia and in neighboring countries





Togliatti Transformer 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.

First Dpty General Director
Commercial Director
A. V. Roslyakov

 **ТОЛЬЯТТИНСКИЙ
ТРАНСФОРМАТОР** 

Дата 22.12.16 № 44031-01/663

на № _____ Дата _____

ООО "ТОЛЬЯТТИНСКИЙ ТРАНСФОРМАТОР"
446001, Россия, г.Тольятти, Самарской обл., Индустриальный, 1
Тел.: (007) (8482) 75-99-09, 75-99-10
Факс: (007) (8482) 25-93-00, 75-99-11
ОКПО 15352815 ОГРН 1036301104069
ИНН 6323072765 КПП 631050001
E-mail: tt@transformator.com.ru
www.transformator.com.ru



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

Уважаемый Александр Зиновьевич!

ООО «Тольяттинский Трансформатор» благодарит ООО «Масса» - завод «Изолятор» за плодотворное взаимовыгодное сотрудничество и подтверждает высокое качество высоковольтных выводов 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 выводов.

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



PMTT. High-voltage Solutions manufactures 126–800 kV power transformers and ATs of over 25 MVA capacity including units in three-phase arrangement.


The production capacity of PMTT is more than 10 000 MVA annually. Headcount — about 350 staff members.

Reference Letter of PMTT. High-voltage Solutions

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

 **СИЛОВЫЕ МАШИНЫ - ТОШИБА**
ВЫСОКОВОЛЬТНЫЕ ТРАНСФОРМАТОРЫ

ООО «Силовые машины – Тошиба. Высоковольтные трансформаторы»
Юридический адрес: 195009, Россия, Санкт-Петербург, ул. Ватутина, 3а
Фактический адрес: 196641, Россия, Санкт-Петербург, пос. Металлострой, Славянский проезд, дом 3
Тел.: +7-812-383-54-00 E-mail: info@pmtt.ru http://www.pmtt.ru

21.12.2016 г. № 05/1-1/1165


На № _____ от _____

**Председателю Совета директоров
ООО «Масса» - завод «Изолятор»
Славинскому А.З.**

Уважаемый Александр Зиновьевич,

ООО «Силовые машины – Тошиба. Высоковольтные трансформаторы» отмечает успешный многолетний опыт работы и развития сотрудничества между нашими предприятиями, в части поставки высоковольтного оборудования. За время совместной работы ООО «Масса» - завод «Изолятор» показал себя как надежный партнер в работе, успешный производитель и поставщик высоковольтных вводов как на серийные, так и на специально разработанные конструкции.

Благодарим Вас за высокое качество высоковольтных вводов, слаженную и оперативную работу отдела продаж, а также желаем Вам дальнейшего роста и процветания, как на территории Российской Федерации, так и за ее пределами.

И.о. генерального директора  **К.Г. Стафеев**

Иск. Морозов Д.А.
Тел. (812) 383-54-09
e-mail: Morozov_DA@pmtt.ru



SVEL Group is a leading power equipment manufacturer in Russia. The company boasts one of the impressive growth modernization rates in the industry. The production of SVEL Group meets the requirements and the highest world standards; and also develops new prospective directions under the common brand.

Reference letters of SVEL Group

SVEL Group 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 SVEL
Group
A. Yu. Kishko

Группа СвЕрдловЭлектро

СВЕЛ 620010, Екатеринбург, ул. Чернышевского д. 61
Тел./факс: +7 (343) 253-50-21 (22)
www.svel.ru

Сертификат качества

№	2280-15-224	Кому:	ООО «Масса» - заказчик «ИЗОЛЯТОР»
Дата	18.06.2015 г.	Кем:	Председатель Совета директоров А. Ю. КИШКО
Тема	Благодарственное письмо		

Уважаемый Александр Иванович!

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

Все поставленные продукция производства завода «ИЗОЛЯТОР» точно соответствует техническим характеристикам, системам качества и не имеет дефектов. Нарекания в отношении с выданными в заводскими объемами отсутствуют.

За время нашего делового сотрудничества вопросы по согласованию технических характеристик, спецификаций и договору производились оперативно, что указывает на высокий профессионализм всех служб ООО «Масса».

Надеемся на дальнейшее развитие сотрудничества и увеличение объема выпуска продукции.

Генеральный директор УК ЗАО «Группа СВЕЛ» А.Ю. КИШКО

Исполнитель:
Директор, менеджер по закупкам
ФГО: Анна Б.С.
E-mail: Lyubov@svet.ru

Группа СвЕрдловЭлектро

СВЕЛ 620010, Екатеринбург, ул. Чернышевского д. 61
Тел./факс: +7(343) 253 50 17
www.svel.ru

Сертификат качества

№	2280-15-229	Кому:	ООО «Масса»
Дата	12.11.2013	Кем:	Первому зам. генерального директора Коммерческого директора И.Д. Понфилову
Тема:	Отзыв о продукции	Факс:	(495) 727-33-11

Уважаемый Иван Дмитриевич!

ООО «Масса» уже на протяжении нескольких лет является постоянным поставщиком высоковольтных выводов в адрес ООО «СВЕЛ-Силент трансформатор».

Поставляемая продукция Вашего производства отличается высоким качеством, соответствует требованиям ГОСТ, международным стандартам и ТУ.

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

Начальник ОЗ МТ Скорина С.А.

Исполнитель:
Директор, менеджер по закупкам
ФГО: Анна Б.С.
Телефон 253-50-14 (доб. 2177)
E-mail: mto@svet.ru

For several years, ООО Massa is a regular supplier of high-voltage bushings for 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



Manufacturing complex of Elektroavod

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 Elektroavod

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 Electrozavod 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

ОТКРЫТОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО
ХОЛДИНГОВАЯ КОМПАНИЯ
«ЭЛЕКТРОЗАВОД»
(ОАО «ЭЛЕКТРОЗАВОД»)
ОБОСОБЛЕННОЕ ПОДРАЗДЕЛЕНИЕ «УФИМСКИЙ ТРАНСФОРМАТОРНЫЙ ЗАВОД»
(Обособленное подразделение «УТЗ»)

21.10.2016 № 30-ЕЕ-дд-1930

На № _____ от _____

ООО «Масса»
Генеральному директору
Моисееву С. Б.

Уважаемый Сергей Борисович!

ОП УТЗ ОАО «ЭЛЕКТРОЗАВОД» благодарит ООО «Масса» за положительный и продуктивный опыт сотрудничества в части поставки высококачественных трансформаторных вводов.

За все время нашего сотрудничества, вопросы касавшиеся производства и поставок высоковольтных вводов проводились оперативно, что указывает на высокий профессионализм всех служб ООО «Масса».

Мы надеемся на дальнейшее развитие сотрудничества наших компаний и желаем Вам дальнейшего роста и развития.

С уважением,
Директор



Ю.П. Вертяков

О.А. Кулиш
(347) 292-02-92 (34-05)
koz@elektrozavod.ru

Юридическая организация: Электрозаводская ул., д. 21, Москва, 107023
Почтовый адрес: Электрозаводская ул., д. 6, с. Зубово, Уфимский р-н, Республика Башкортостан, 450520

ОКПО 03758078, ОГРН 1027700157605
ИНН 7718013390 / КПП 024545001

Тел./факс: (347) 292-02-92, E-mail: dir@elektrozavod.ru, http://www.elektrozavod.ru



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

АКЦИОНЕРНОЕ ОБЩЕСТВО
«УРАЛЭЛЕКТРОТЯЖМАШ»

Россия, 620017, г. Екатеринбург, ул. Фрунзенская бригада, 22, ИНН/КПП 6673197337/660850001, р/с 40702810301700001398 в ПАО БАНК «ФК ОТКРЫТИЕ» г. Москва, к/с 301018103000000000985, БИК 044525985
телефон: (343) 324-53-00, факс: (343) 324-55-21, E-mail: secretary@uetm.ru, www.uetm.ru

Дата 26.12.2016 Иск. № 527

Руководителю направления
ООО «Масса»
- завод «Изолятор»
М. И. Загребину

Уважаемый Максим Игоревич!

АО «Уралэлектротяжмаш» выражает свою искреннюю благодарность всем службам завода «Изолятор» за ответственный и добросовестный подход к работе.

Объем поставок в этом году превзошел предыдущие показатели, и мы всегда остаемся верны высоковольтным вводам Вашего производства. За годы совместной работы завод «Изолятор» показал себя как надежный партнер.

Мы рекомендуем высоковольтные вводы завода «Изолятор», как продукцию, заслужившую доверие.

Главный конструктор

Борисенко А. А.



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





Kentau Transformer Plant (KTP) is known as the leading Kazakhstan producer of the transformer equipment of wide application delivered for all branches of economy, including power industry, metallurgy, mechanical engineering, transport, oil and gas complex, housing and communal sector.

Reference letter

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

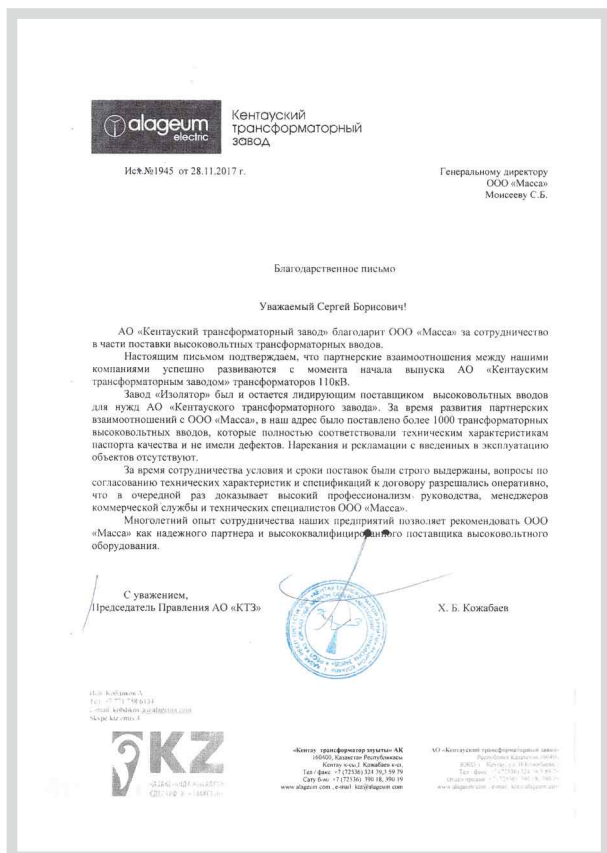
Hereby, we confirm that the partner relations between our companies have successfully developed since the start of production by Kentau Transformer Plant JSC 100 kV transformers.

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





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

Power transformers of AO Chirchik transformator 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 transformator 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

Q'ZBEKISTON RESPUBLIKASI
AJ
"CHIRCHIQ
TRANSFORMATOR
ZAVODI"

REPUBLIC OF UZBEKISTAN
JSC
"CHIRCHIQ
TRANSFORMATOR
ZAVODI"

Р/с 202100005500430710001 в ЧАКБ "Ориент-Финанс Банк" г.Ташкент МФО
ИНН 200941525 ОКЭД 27110 ОКПО 00212908

30.11.2017, № 415/152.2.11

Генеральному директору
ООО «Масса»
Монсенью С.Б.

Уважаемый Сергей Борисович!

АО «Chirchik transformator zavodi» выражает благодарность ООО «Масса» за сотрудничество в части поставки высоковольтных трансформаторных вводов.

Силовые трансформаторы производства АО «Chirchik transformator zavodi», укомплектованные высоковольтными вводами завода «Изолятор», успешно эксплуатируются на территории Республики Узбекистан, а также экспортируются более чем в 30 стран мира: Индия, Пакистан, Китай, Монголия, Египет, Турция, Вьетнам, Корея, Греция, Болгария, Польша, Ирак, Иран, Куба, Гвинея и другие.

За время развития партнерских взаимоотношений с ООО «Масса» поставленные в адрес АО «Chirchik transformator zavodi» трансформаторные высоковольтные вводы, всегда соответствуют заявленным техническим характеристикам.

За время сотрудничества, ООО «Масса» зарекомендовало себя как стабильного и ответственного партнера, который четко соблюдает условия и сроки поставок.

Настоящим письмом подтверждаем, что многолетний опыт сотрудничества наших предприятий позволяет рекомендовать ООО «Масса» как надежного партнера и высококвалифицированного поставщика высоковольтного оборудования.

Надеемся на дальнейшее продуктивное развитие сотрудничества.

С уважением,
Генеральный директор

А.О. Назаров

Иск. ВЭД
Шафиева Эльмира
Тел. +998707131774

111713, Республика Узбекистан, Ташкентская область, г. Чирчик, пл. Электромашиностроителей, 1
Телефон: +99870 71 30167 Факс: +99870 71 30162, <http://www.chtz.uz>

References of Power Industry and Heavy Industry enterprises of Russia and neighboring countries





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 — ООО «Масса», 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 O1, 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 — ООО Масса is reliable and responsible partner, personnel of which is highly competent in their field of business.

Director
S. G. Kupriyanov


**ОТКРЫТОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО
ЭНЕРГЕТИКИ И ЭЛЕКТРОИЗЯЩАЯ «МОСЭНЕРГО»**
(ОАО «Мосэнерго»)
**Филиал
ТЭЦ-22**
Зарегистрировано в Едином государственном реестре юридических лиц (ЕГРЮЛ) № 5037003873, дата регистрации 18.07.2013, ОГРН 103503873
ОГРН 103503873, ОГРН 103503873, ОГРН 103503873
на № _____ от _____


Уважаемый Константин Георгиевич!

18 июля 2013 года специалистами Завода «Изолятор» ООО «Масса» А.В. Пилиugin и Д.И. Шурьгин 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 O1, зав.чертеж ИВЕЮ.686352.002, зав.№ 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. Кузин
(495) 551-32-36 



ROSENERGOATOM
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.

 **РОСЭНЕРГОАТОМ**
Акционерное общество «Российский концерн по производству электрической и тепловой энергии на атомных станциях» (АО «Концерн Росэнергоатом»)
Филиал АО «Концерн Росэнергоатом» «Ленинградская атомная станция» (Ленинградская АЭС)
г. Сосновий Бор, Ленинградская обл., 188540
тел.: (81369) 59977, e-mail: info@lga.ru
факс: (81369) 51391, e-mail: info@lga.ru
факс: (81369) 73880, e-mail: info@lga.ru
ОГРН 1022474 ОГРН 1027461199991
ИНН 772163827 КПП 472640001

Генеральному директору ООО «Масса»
Монсееву С.Б.
ул. Ленина, 77 с. Павловская Слобода,
Истринский район, Московская обл., 143581
тел. 8(945) 727-33-11
факс 8(495) 727-27-66

№ 28.11.2016 от 9/009/011/26961
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 БМИ 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

Полн. № 1221
28.11.2016
подпись

Л.Н.Тихарова
тел.51129
д.ф.099/31-48
24.11.2016

Chief Engineer
K. G. Kudryavtsev



ROSENERGOATOM
ROSATOM


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 GKTH-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**
ОАО «Концерн 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.Десногорск, Смоленской обл., 216400
тел., факс: (8-48153)7-47-69; (495)710-48-80
e-mail: mail@saec.ru
ОГРН 102780559 ОГРН 508746119951
ИНН 7721632827 КПП 772101001/672443001
От 17.06.2016 № 321
На № 321 от 06.06.2016г.
Отзыв о работе оборудования


 **Компания «Изолятор»**,
Директору направления по работе с
партнерами
О.Н. Бакулину
г. Москва,
e-mail: sktb@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 ГКTH-60-550/2500 O1 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

ЭЦ. С.А. Бычков,
6-23-73






Volzhskaya HPP 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 HPP

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



РусГидро
Филиал ПАО «РусГидро» –
«Волжская ГЭС»
д. 1А, проезд Ливин, с. Волжский, Волгоградская область,
Росси́йская Федера́ция, 400130
т.: 8 (800) 3338000 / +7 (495) 2253232
ф.: +7 (8443) 343115, 420359
ф.: +7 (8443) 410613
office@rusgidro.ru, rusgidro.ru
www.rusgidro.ru

Директору направления по работе с
партнерами
ООО «Масса»
О.Н. Бакулину
Email:mosizolyator@mosizolyator.ru

от 03.08.2016 № 1331
на № _____ от _____


Отзыв по высоковольтному вводу
типа ГКТIII-60-(+/-)400/1250 O1

Уважаемый Олег Николаевич!

Сообщаю Вам, что в августе 2016 года на трансформаторе типа
ОДЦТНП-135000/400/220, установленного на филиале ПАО «РусГидро»-
«Волжская ГЭС», были выполнены работы по замене маслонаполненного
высоковольтного ввода 400 кВ на высоковольтный ввод с RIP-изоляцией типа
ГКТIII-60-(+/-)400/1250 O1 ИВУЕ.686354.704 производства ООО «Масса» -
завод «Изолятор».

На основании имеющегося опыта монтажа и эксплуатации замечаний к
высоковольтному вводу типа ГКТIII-60-(+/-)400/1250 O1 ИВУЕ.686354.704 нет.

Директор филиала



С.Н. Бологов

Н.Ю. Новиков
8(8443)42-01-92



Vilyuiskaya HPP named after E. N. Batenchuk is a hydraulic power plants complex in Russia, located on the Vilyui river in Sakha Republic (Yakutia). The cascade is the only guaranteed power supply ensuring uninterrupted delivery of electricity to the Western Yakutia.

Vilyuiskaya HPP named after E. N. Batenchuk is part of Yakutskenergo PJSC.


Reference of Vilyuiskaya HPP cascade named after E.N. Batenchuk

QTE

Dear Sirs, Herewith, we confirm that beginning from 2012, our company purchased high-voltage bushings with polymer external insulation, made by Izolyator plant: 23 pcs of GKLP III-90/252/2000, IVUE 6862353.235.

These bushings were installed on an indoor switch gear ZRU-220 of HPP-1 of Vilyuiskaya HPP cascade as a replacement of GMLA-90-200/1000 U1, manufacturer's drawing 415-0-0. We have not registered any faults and have no complaints about operation of the equipment in severe climate conditions (temperature range from +40 to -65 dg Celsius).

Director Vilyuiskaya HPP cascade
named after E.N. Batenchuk
A. V. Goryainov
UNQTE



Публичное акционерное общество
"Якутскэнерго"
Каскад Вилюйских ГЭС
им. Е.Н. Батенчука

678185 Российская Федерация
Республика Саха (Якутия) п. Чернышевский
Телефон (41136)78350, (41136)72616
Телефакс (41136)72844
E-Mail: kanc-KVGES@yakutskenergo.ru


№ _____
На № _____

Уважаемые господа!

Настоящим письмом подтверждаем, что начиная с 2012 г. нашим предприятием были приобретены в/ольтные линейные вводы с полимерной внешней крышкой производства ООО «Масса» - завод «Изолятор» марки ГКЛП III-90-252/2000 О1, ИВУЕ.686353.235 в количестве 23 (двадцать три) шт.

Указанные вводы были смонтированы на ЗРУ-220 ГЭС-1 Каскада Вилюйских ГЭС взамен вводов марки ГМЛА-90-220/1000 У1, зав.черт. 415-0-0. Каких-либо нареканий за период эксплуатации оборудования в сложных климатических условиях (диапазон температур от +40 до - 65 °С) не поступало.

Директор Каскада Вилюйских ГЭС
ПАО «Якутскэнерго»



А.В. Горяинов



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 high-voltage 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

021994-03-00770

ТЕЛ: 3270111

25.05.2015 14:04 СР1



Заказчик: ООО «Защита электротехники
«Белград»

Исполнитель: Минское республиканское унитарное
предприятие электротехники
«МНІСКЭНЕРГА»

478 Архана, 24, 220031, г. Минск
тел. (017) 223 81 01, факс(017) 227 21 11
E-mail: ofis@mniskenerga.by

по 201307740011 Центр безопасности электр № 703
ААЭ "БСЭ-Сервис" г. Минск, КВР 119901049

Государственное предприятие
общественной электротехники «Белград»
Минское республиканское унитарное
предприятие электротехники
«МНІСКЭНЕРГА»

478 Архана, 24, 220031, г. Минск
тел.(017) 223 81 01, факс (017) 227 21 11
e-mail: ofis@mniskenerga.by

по 394207740011 Центр безопасности электр № 703
ОАО "БСЭ-Сервис" г. Минск, КВР 119901049

45 05 2015 № Т 8461


На № 263 от 21.05.15

Генеральному директору
ЗАО «Защитный проект»
Лагуна С.Н.

На протяжении ряда лет ЗАО «Защитный проект» осуществляет поставку высоковольтных изводов различных классов напряжения производства ООО «Маско» для филиалов РУП «Минскэнерго»: Службы ЭС, Столбовские ЭС, Молодечненские ЭС, Борисовские ЭС, Милутка ТЭЦ-4, Жолитская ТЭЦ.


Вся поставляемая 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. Горюнов

34 Моздок-218428






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 ООО Масса (Russian Federation) and delivered by TCHUP Sagrat.

Chief Engineer
A. M. Shishov

FROM : Mogilevenergo. PHONE NO. : 00222293430. FRY, 29.05.2015 10:28PM PT

 Дирекция энергетического хозяйства
Могилевское республиканское унитарное предприятие «Могилевэнерго»
(РУП «МОГИЛЕВЭНЕРГО»)
ул. Советская, 3, 212020, г. Могилев
тел. (0222) 29-33-35, факс (0222) 29-34-81
e-mail: energo@mogilevenergo.by
УНП 700007666
Р/р: 301219330115 в Республиканский Дорсбанк №600
А/АТ «БПС-Сбербанк», БИК 133001589

Государственное учреждение
«Министерство энергетики»
Могилевское республиканское унитарное предприятие «Могилевэнерго»
(РУП «МОГИЛЕВЭНЕРГО»)
ул. Советская, 3, 212020, г. Могилев
тел. (0222) 29-33-35, факс (0222) 29-34-81
e-mail: energo@mogilevenergo.by
УНП 700007666
Р/р: 301219330115 в Республиканский Дорсбанк №600
А/АТ «БПС-Сбербанк», БИК 133001589


на № _____ от _____

Об отзыве по вводам
высоковольтным

Директору ТЧУП «Сограт»
Мельнику Д.П.
Рекв. 8-017-237-71-01

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

С уважением,
Главный инженер

 А.М. Шишов

Уставка
293-365

Khmelnitsky Nuclear Power Plant is engaged in production of electric energy and located in the central part of Western Ukraine. Satellite town — Netishin, Khmelnytsky region.

Khmelnitsky Nuclear Power Plant is a division of the National power generating company Energoatom.

Reference Letter of Khmelnitsky NPP

In response to your letter dated February 17, 2020 No. 07/122, please be informed that sealed high-voltage bushings of the GKR11-30-800/315 O1 type are operated at the Khmelnitsky NPP (drawing IVUE.686356.165 NPP).

These high-voltage bushings are in operation at shunt reactors of the RODTs-100000/750 type:

- RM- 'Kiev' phase 'C' from 27.12.2016;
- RM- 'West Ukr.' phase 'C' from 25.04.2018;
- RM- 'West Ukr.' phase 'B' from 13.02.2019.

Throughout the operation, we have no critical comments on the performance of the sealed high-voltage bushings of the GKR1-30-800/315 O1 type (drawing IVUE.686356.165 NPP).

General Director
Andrey Kozyura

Міністерство енергетики та захисту довкілля України
ДП НАЦІОНАЛЬНА АТОМНА ЕНЕРГОГЕНЕРАЦІОНА КОМПАНІЯ

ENERGOATOM

Відокремлений підрозділ
«ХМЕЛЬНИЦЬКА АЕС»
National Nuclear Energy Generating Company
«Energoatom SE «Khmelnytsky NPP»

вул. Енергетиків, 20, м. Хмельницкий, Хмельницький обл.,

Україна, 30100. ДПР/ТУУ 21313677

Телефон: +38 (03842) 80002. Факс: +38 (03842) 92080

Комп'ютер: +38 (03842) 40400

E-mail: office@npp.energoatom.ua

20 Enerhetikiv Str., Natsiyn. Khmelnytskyi Reg.,

Ukraine, 30100

Office: +38 (03842) 80002. Fax: +38 (03842) 92080

Switchboard: +38 (03842) 40400

At. 08.002.0 № 11-19/12-1989

На № _____

Руководителю направления по продажам в
странах СНГ и Прибалтике
ООО «Масса»

Максиму ОСИПОВУ

факс: (495) 727-27-66

e-mail: mosizolyator@mosizolyator.ru

Уважаемый Максим Владимирович!

В ответ на Ваше письмо от 17.02.2020 г. № 07/122 сообщаем что на Хмельницкой АЭС эксплуатируются герметичные высоковольтные вводы типа ГРП II-30-800/315 О1 (чертеж ИВУЕ.686356.165АЭС).

Данные высоковольтные вводы находятся в эксплуатации на шунтирующих реакторах типа РОД-II-110000/750:

– РМ-«Киевская» фаза «С» с 27.12.2016 г.;

– РМ-«Зап.Укр.» фаза «С» с 25.04.2018 г.;

– РМ-«Зап.Укр.» фаза «В» с 13.02.2019 г.

За время эксплуатации замечаний к герметичным высоковольтным вводам типа ГРП II-30-800/315 О1 (чертеж ИВУЕ.686356.165АЭС) нет.

С уважением,
Генеральный директор

Андрей КОЗИОРА

№ 203801

Зм. Александр Гаврик (03842) 62835

Зам. ЗД 113-1000



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.

ЧУМХУРИИ ТОҶИКИСТОН

ШИРКАТИ САҲОМИИ
ХОЛИДИНГИИ КУШОДАИ
«БАРКИ ТОЧИК»

Корхонаи фарии таъминоти
молии – техникаи

«ТОҶИКЭНЕРГОСНАБ»

РЕСПУБЛИКА ТАДЖИКИСТАН

ОТКРЫТАЯ АКЦИОНЕРНАЯ
ХОЛДИНГОВАЯ КОМПАНИЯ
«БАРКИ ТОЧИК»

Дочернее предприятие
материально – технического
обеспечения

«ТАДЖИКЭНЕРГОСНАБ»

734036, г. Душанбе, Р. Набиева 345, ДПМТО «Таджикэнергоснаб». Тел-Факс (992-372) 239-82-02.
E-mail : tes_dpmtfo@mail.ru р/с 20202972216900001287, МФО 350101369, ОПЕРУ «Ориентбанк» г. Душанбе.

01.11.17 № 21/7-197

На № от г.

По месту требования

ОТЗЫВ

ДПМТО «Таджикэнергоснаб» ОАХК «Барки Точик» ставит Вас в известность, что является основным поставщиком электрооборудования для эксплуатационных нужд энергокомпании 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 «Мосизолатор».

Директор

Бобоев С.А.

Изм - 02
Тел. - +992-372-39 82 02

Reference letter of Barki Tochik

Tajikenergossnab, 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



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 GKRII-60-330/1000 IVUE.686353.171 type 330 kV HV bushings of Izolyator in operation at RC Krymenergo. Current operating time is 3 years.

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.

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


ГУП РК «КРЫМЭНЕРГО»

ГОСУДАРСТВЕННОЕ
УНИТАРНОЕ ПРЕДПРИЯТИЕ
РЕСПУБЛИКИ КРЫМ «КРЫМЭНЕРГО»

Российская Федерация, Республика Крым,
295034, г. Симферополь, ул. Киевская, 74/6.
Примечание: тел./факс +7 (3652) 24-85-01
zakaz@krym-energo.crimea.ru
Отдел делопроизводства и контроля:
тел.: +7 (3652) 27-23-24, факс: +7 (3652) 60-00-91
kaps@krym-energo.crimea.ru
http://krym-energo.crimea.ru
ОГРН 1149102003423
ИНН 91020202878 КПП 910201001
БИК 043510123 в АО «ГЕНБАНК»
Корр. счет 30101810835100000123
Р/с 40602810300230000007 (актив)
Р/с 40602810800230270007 (услуги)
Р/с 40602810600230250007 (присоединение)

17.05.2017 № 44/12/170

ООО «Масса»
Директору направления
стратегических продаж
А.А. Савинову
факс: (495) 727-27-66
E-mail: mosizolyator@mosizolyator.ru

Отзыв о работе
продукции

Уважаемый Александр Александрович!


В ответ на Ваш запрос сообщаем, что в настоящее время на ПС-330 кВ «Севастополь» ГУП РК «Крымэнерго» в эксплуатации находятся три высоковольтных ввода типа ГТПШ-60-330/1000 IVUE.686353.171 на класс напряжения 330 кВ производства компании «Изолятор».

Срок эксплуатации три года.

При проведении испытаний, установки на оборудование и ввода в работу нарушений зафиксировано не было. Все необходимые требования к техническим параметрам, комплектации, качеству высоковольтных вводов, а также к объему требуемой документации выполнены в полном объеме.

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

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

 Н.В. Федоров

ИЗН
Шор Сенен Яковлевич
59-12-60



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.

Sulkhan Zumburidze
Chairman of the Board


საქართველოს სახელმწიფო ელექტროსისტემა / Georgian State Electrosystem
საქართველო, თბილისი 0105, ბარათაშვილი 2, Baratashvili str., Tbilisi 0105, Georgia ტელ./გაქვით/ფაქსი: +995 322 283704, +995 322 510101
N 4840/07
18/10/2017
4840-07-2-201710180943
Председателю совета директоров ООО «Масса»
Г-ну Славинскому А. В.
Уважаемый Александр Зиновьевич,
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 «Государственной Электросистемой Грузии» были закуплены и введены в эксплуатацию 20 (двадцать) штук высоковольтных вводов 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



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

Letter of Gratitude from Aetos Ltd.

Aetos Ltd. appreciates Massa Ltd. for the positive experience of cooperation in the supply of high-voltage bushings.

All the products supplied by the plant were strictly in line with the technical specifications of the quality certificate and had no defects. No complaints on quality.

During our cooperation at the negotiation stage and further work on settlement of technical characteristics and specifications, all issues were resolved promptly, which indicates the high professionalism of all departments of Massa Ltd.

With hope for further success of mutual business and steady increase in shipments.

Director of Aetos Ltd.
Tamaz Sharikadze

შ.პ.ს. აეტოს

AETOS L.T.D.

№ 197/12

от 17.12.2018 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».

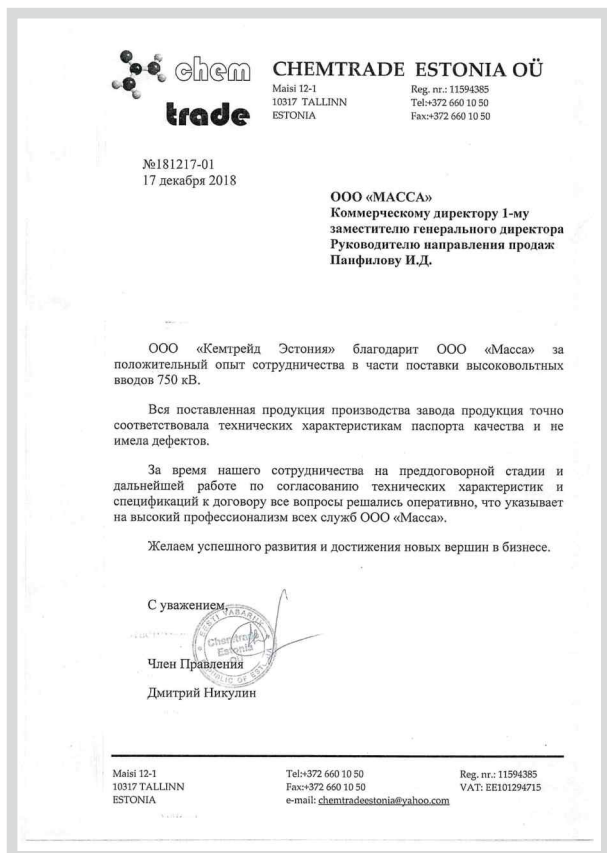
Надеемся на дальнейшее развитие сотрудничества и увеличение объема отгрузок.

С уважением Директор ООО «Аетос»
Т.Шарикадзе

საქართველო, დიდიდიდი, 0159, დიდიდიდი, გორგი ბრტსინაძის ქ. 1, ბ. 101, ტ. +995 599 904757
101 Giorgi Brtskinvale Str. 1, Didi Dighomi, 0159 Tbilisi, Georgia. e-mail: aetosltd@gmail.com



Chemtrade Estonia OÜ is an importer of electrical equipment of world's leading OEMs for the needs of power industry companies.



Thank-you Letter from Chemtrade Estonia OÜ

Att: Commercial Director of Massa Ltd. Ivan Panfilov

Chemtrade Estonia Ltd. appreciates Massa Ltd. for the positive experience of cooperation in the supply of 750 kV high-voltage bushings.

All the products supplied by the plant were strictly in line with the technical specifications of the quality certificate and had no defects. No complaints on quality.

During our cooperation at the negotiation stage and further work on settlement of technical characteristics and specifications, all issues were resolved promptly, which indicates the high professionalism of all departments of Massa Ltd.

We wish you successful development and achievement of new heights in business.

Member of the Board of Directors
Dmitry Nikulin



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.

Vice President Supply Chain
Tierry Comptes





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

 ОТКРЫТОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО
**"ЗАВОД ПО РЕМОНТУ ЭЛЕКТРОТЕХНИЧЕСКОГО
ОБОРУДОВАНИЯ (РЭТО)"**
115201, Москва, Стрешневский проезд, д. 4а
(495) 614-03-22, факс: (495) 710-84-07, E-mail: info@reto.ru, www.reto.ru

11.10.2013 № 1201-02

Имя Фамилия От

Заместителю коммерческого
директора по продажам
Ю.В. Павлову

Отзыв о качестве продукции.

Уважаемый Юрий Васильевич!

ООО «Масса» на протяжении нескольких лет является поставщиком высоковольтных вводов 20-220 кВ нашей организации.

Поставляемая продукция завода ООО «Масса» высокого качества, соответствует современным стандартам и требованиям НТД, и имеет все необходимые испытания и сертификаты. Также ООО «Масса» всегда соблюдает необходимые сроки поставки своей продукции.

Главный инженер  А.А. Жуков

Иск. Тельянов Е.В.
8-495-710-84-10



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»
Госпитину Монсееву С.Б.

ОАО «УРАЛЭНЕРГОРЕМОНТ»
Юридический адрес: 620219 г. Екатеринбург, ул. Шаевича, 16,
Почтовый адрес: ул. Шаевича, 16, г. Екатеринбург, Россия, 620075
ИНН 6603001308, КПП 6603001001, ОГРН 1026604941887,
ОКПО 00110833, тел. (343) 350-81-46, факс (343) 388-14-59,
e-mail: uer@uer.ru, www.uer.ru

18.10.2015 № 24/10.23
На № _____ от _____

Уважаемый Сергей Борисович!

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

Иск 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

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

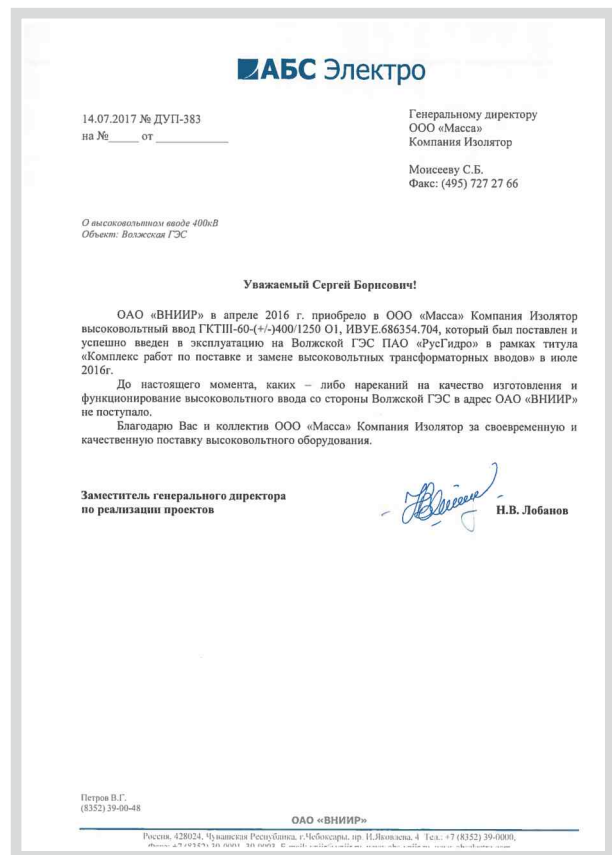
In the second half 2013, Sibirskaya Electric-Installation Company purchased 2 sets of IVUE 686352.103-03 bushings with RIP insulation made by Izolyator for servicing TDTN-10000/110kV power transformers.

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



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

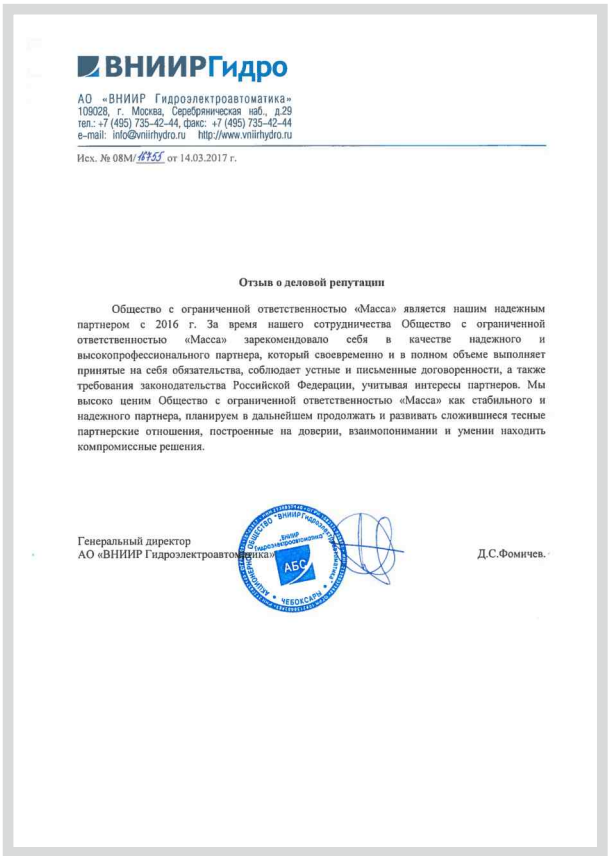


VNIIR Hydroelectroautomation JSC offers its customers a complete services range in design, configuration, supply, installation, commissioning and putting into operation of power facilities. The enterprise operates as a full cycle engineering company from identification of customer requirements and feasibility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

РР01 : ОК ИР2 PHONE NO. : 791 51 5705 FAX : 05 2011 52-5291 01

 АЧИНСКИЙ НЕФТЕПЕРЕРАБАТЫВАЮЩИЙ ЗАВОД ВХОДЯЩИЙ В КОМПАНИЮ «РОСНЕФТ»


№ 07/166 от 24.02.2011

Начальнику ОТЗОВ
продаж ООО «Изолятор»
Харитонову М.А.
Факс 8(495) 727-22-09,
e-mail: Oze@mosizolyator.ru

Уважаемый Михаил Александрович!

В ответ на Ваш иск № 07/166 от 24.02.2011 г. ода сообщаем:
На ОАО «АНПЗ В-Н» с 2006 года производится замена линейных вводов и вводов на масляные выключатели напряжением 110 кВ и 220 кВ производством ООО «Масса» (завод Изолятор). На данное время заменены:
– линейные вводы напряжением 110 кВ – 27 шт.;
– вводы на масляные выключатели напряжением 110 кВ – 4 шт.;
– вводы на масляные выключатели напряжением 220 кВ – 13 шт.
Линейные вводы с полимерной наружной изоляцией, бикомы с фарфоровой наружной изоляцией.
Во время эксплуатации никаких замечаний и нарушений в работе вводов не выявлено. Данные вводы просты и удобны в эксплуатации. Проведение текущих и капитальных ремонтов не требуется, производится только техническое обслуживание и измерения, что намного сократило время ремонта электрооборудования.

С уважением
Главный инженер

 А.Ю. Разин

Исполнитель:
Малефев Н.В.
8(391)595-35-22
e-mail: n.malefev@achn.ru

1-й этаж, кабинет 10
2-й этаж, кабинет 10
3-й этаж, кабинет 10
4-й этаж, кабинет 10
5-й этаж, кабинет 10
6-й этаж, кабинет 10
7-й этаж, кабинет 10
8-й этаж, кабинет 10
9-й этаж, кабинет 10
10-й этаж, кабинет 10

РР01 : ОК ИР2



EVRAZ Consolidated West-Siberian Metallurgical Plant (EVRAZ ZSMK) is the largest steel manufacturer in Siberia and the easternmost in the Russian Federation.

In terms of production capacity and volume, EVRAZ ZSMK hits top five largest in Russia and top thirty of the world's largest steel foundries. It is one of the five largest rail manufacturers in the world.

Reference of EVRAZ West Siberian Metallurgical Complex

Hereby, we confirm that our enterprise purchased 3 pcs GKL III-90-252/2000 01, IVUE.686353.335 high-voltage bushings from Izolyator in 2017.

Those bushings were installed at SS OP-9 of EVRAZ ZSMK JSC (facility operating in conditions of high pollution) in the same year. We have not registered any complaints with the performance of that equipment.

We would like to mention the preparedness of the manufacturer – Massa Ltd. and the supplier of the bushings — Osteron Ltd to meet the customer's requirements of a significant delivery upgrade, execution of the bushings in custom-made dimensions in order to have cost effective and simplified installation works. We would like to point out the highest level of the product execution — new generation 220 kV RIP wall bushings with porcelain external housing and gel filler.

We find it possible to recommend that equipment for application at power facilities of metallurgical and chemical industries that operate in conditions of high pollution.

Chief Power Engineer
EVRAZ ZSMK JSC
A. P. Kuznetsov

ЕВРАЗ


26.03.2018 № 188/53

Уважаемые господа!

Настоящим письмом подтверждаем, что в 2017 г. нашим предприятием были приобретены в/вольтные линейные вводы производства ООО «Масса» - завод «Изолятор» марки ГЛ III-90-252/2000 01, IVUE.686353.335 в кол-ве 3 (три) шт. Указанные вводы были смонтированы на подстанции АО «ЕВРАЗ ЗСМК» ОП-9 (объект с высокой степенью внешней загрязненности) также в 2017 г. Каких-либо нареканий за период эксплуатации оборудования не поступало.


Отмечаем готовность изготовителя – ООО «Масса», и поставщика вводов – фирмы ООО «Остерон», идти навстречу пожеланиям заказчика в части существенного сокращения срока поставки, изготовления вводов с индивидуальными габаритами для упрощения и удешевления монтажных работ. Особо отмечаем высокий уровень изготовления продукции нового поколения – линейные вводы 220 кВ с RIP-изоляцией, с фарфоровой внешней крышкой и гелевым наполнителем.

Считаем возможным рекомендовать указанное оборудование для внедрения на объектах энергетики предприятий металлургической и химической промышленности с повышенной степенью загрязненности.

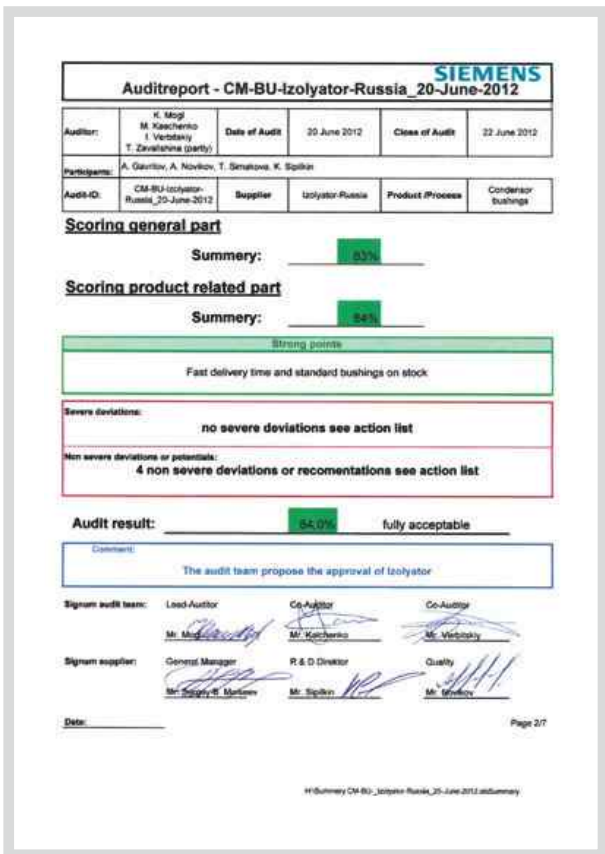
Главный электрик АО «ЕВРАЗ ЗСМК»  А.П. Кузнецов

« Акционерное общество «ЕВРАЗ Объединенный Западно-Сибирский металлургический комбинат» « Ш. Косминское, д. 16, г. Новокузнецк, Кемеровская область, Россия. 654043 « тел. (3843) 59-59-00, факс (3843) 59-59-59 « e-mail: dzp@evraz.com « ОГРН 1024201670020, ОКПО 05757616, ИНН/КПП 4218000951/991550001 www.evraz.ru

References of foreign customers

SIEMENS		
KONČAR		
		CESI





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



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.



CG Power and Industrial Solutions Limited (formerly 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.

Reference letter from Crompton Greaves Limited

Transformer division (TI) 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.



Certificate of Official Supplier to Crompton Greaves Limited





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



Accession No.	Year of Accession	Year of Archiving	Language	Script	Country	Number of columns	Project name	Stage of transcription	First page	Number of pages	Number of print pages
000000001	1927	1927	Arabic	Arabic	Libya	10	Arabic	Completed	742	89	10
000000002	1927	1927	Arabic	Arabic	Libya	10	Arabic	Completed	742	89	10
000000003	1927	1927	Arabic	Arabic	Libya	10	Arabic	Completed	742	89	10
000000004	1927	1927	Arabic	Arabic	Libya	10	Arabic	Completed	742	89	10
000000005	1927	1927	Arabic	Arabic	Libya	10	Arabic	Completed	742	89	10
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000000124	1927	1927	Arabic	Arabic	Libya	10	Arabic	Completed	742	89	10
0000001											

KONČAR - ENERGETSKI
TRANSFORMATORI - d.o.o.
ZAGREB, Jaska Močovića 12



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 - Izolyator Company		Date: 17/05/2017
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.	<u>Result of Evaluation</u>			
4.2.1	Q = %89,85 Quality System is Very Good			
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")



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.



Central Power Research Institute (CPRI) is the powerhouse of the Indian electrical industry.

Set up in 1960 by the Government of India, it functions as a centre for applied research in electrical power engineering assisting the electrical industry in product development and quality assurance. CPRI also serves as an independent authority for testing and certification of power equipment.

Confirmation of the test results of Izolyator 420 and 800 kV bushings by Power Grid Corporation of India Limited

We confirm the test results of RIP bushings manufactured by Izolyator:

- **type tests of 420 kV / 3000 A bushings** in accordance with IEC 60137-2017 (report No. 425 of the Izolyator test center),
- **seismic tests of 420 kV / 3000 A bushings** in accordance with IEC standard 61463 (report No. CPRI BLREVRC19T0076 dated May 31, 2019 of the Central Power Research Institute branch in Bangalore),
- **type tests of 800 kV / 2000 A bushings** in accordance with IEC standard 60137-2017 (reports No. CPRI HYDUHVMISC19T0220 dated December 18, 2019 of the Central Power Research Institute branch in Hyderabad and No. 443 dated October 12, 2019 of the Izolyator plant test center),
- **seismic tests of 800 kV / 2000 A bushings** in accordance with IEC 61463 (report No. CPRI BLREVRC19T0205 dated December 23, 2019, of the Central Power Research Institute branch in Bangalore).

General Manager
of Technology Department
Sunkara B R Rao



Successful completion of seismic tests of an 800 kV Izolyator bushing at the State Power Research Institute of India



NTPC Limited — s the largest state Indian energy company created in 1975 with a goal of India's power sector acceleration.

The company has set a target to reach the total installed value in generation of 128 000 MW by 2032. It plans to use the following energy: 56 % — coal, 16 % — gas, 11 % — nuclear and 17 % — renewable sources.

Approval of supply for the needs of NTPC Limited

This has reference to subject proposal of M/s BHEL. In this regard, please note that your proposal has been reviewed and accepted as under:

M/s Massa LLC (Izolyator Company) having work address "77, Lenin St. Pavlovskaya Sloboda Villadge, Istra District, Moscow Region-143581, Russia" is acceptable for manufacturing & supply of Resin Impregnated Paper (RIP) Bushings up to 420 KV rating for Power Transformers Package of Tanda TPP Stage-II (2 X 660 MW) subject to condition(s) as under: the material shall be manufactured and supplied as per the requirement of Technical Specifications, approved drawing and provisions of approved Data Sheet.

Yours faithfully
For T E Josekutty
CTF (Tanda)

 **एन टी पी सी लिमिटेड**
(एन टी पी सी लिमिटेड)
NTPC Limited
(A Govt. of India Enterprise)
(Formerly National Thermal Power Corporation Ltd.)
केन्द्रीय कार्यालय नोएडा
Corporate Centre NOIDA

Ref: 01/CQA/M-498/9562-501/5281 Dt. 26.04.2016

Sh. S.K. Gupta,
Sr Manager,
Heavy Electrical Plant,
Piplani, Bhopal-462022

Sub: Sub vendor proposal of M/s MASSA LLC (IZOLYATOR COMPANY) for manufacturing & supply of Resin Impregnated Paper (RIP) Bushings for Power Transformers Package of Tanda TPP Stage-II (2X660MW)

Dear Sir,

This has reference to subject proposal of M/s BHEL. In this regard, please note that your proposal has been reviewed and accepted as under:

M/s MASSA LLC (IZOLYATOR COMPANY) having work address "77, Lenin St. Pavlov-Skaya Sloboda Village, Istra District, Moscow Region-143581, Russia " is acceptable for manufacturing & supply of Resin Impregnated Paper (RIP) Bushings up to 420 KV rating for Power Transformers Package of Tanda TPP Stage-II (2X660MW) subject to condition(s) as under:

1. The material shall be manufactured and supplied as per the requirement of Technical Specifications, approved drawing and provisions of approved Data Sheet.

Yours faithfully
For T E Josekutty
CTF (Tanda)

Copy to:
1. GM (QA&I) – for information please

Digitally signed by T E Josekutty
DN: cn=T E Josekutty, o=NTPC, ou=Corporate Centre NOIDA, email=t.josekutty@nptcltd.co.in, c=IN
Date: 2016.04.26 17:50:18



Delhi Transco Limited (DTL) as a State Transmission Utility of Capital city of Delhi is transmitting Power from Central Sector Generating Stations as well as from Intra-State Generating Stations and making it available for Delhi DISCOMs which in turn makes it available for the citizens of Delhi at consumer end.

The existing network of DTL consists of a 400 KV ring around the periphery of Delhi interlinked with the 220 KV network spread all over the city.


Reference letter from Delhi Transco Limited

This is to certify that following Izolyator make RIP Bushing have been commissioned on 2 Nos 500MVA-CGL make transformers at 400kV Substation Bamnauli, DTL through Power Grid Corporation of India Ltd. under strengthening of Transmission networks of Delhi Transco Ltd. vide NOA ref. CC-CS/595-NR1/TR-2811/3/G6/NOA-I&II dated 19.12.2014 awarded to M/s CGL:

1. 6 nos. 420kV/1250A RIP Bushing having serial no 65795, 65645, 65740, 65682, 65671, 65634.
2. 6 nos. 245kV/2000A RIP Bushing having serial no 65786, 65703, 65752, 65680, 65594, 65595.
3. 6 nos 52kV/3150A RIP Bushing having serial no 65665, 65600, 65866, 65699, 65666, 65601.

The above Izolyator make RIP Bushings are successfully commissioned on dt 15.07.2015 and 16.08.2015 and are performing satisfactorily till date. There have not been occurred any problem with maintenance.

Manager (T)
400KV Substation Bamnauli
S. K. Singh

 **DELHI TRANSCO LIMITED**
400kV Substation Bamnauli
(A Govt of NCT of Delhi Undertaking)

F:DTL/208/F.04/2018-Opms(O&M)-II/Mgr(BML)/269 Dt:11/10/2018

Massa LLC (Izolyator Company)
77, Lenina Street, Pavlovskaya Sloboda Village, Istra District,
Moscow Region-143581,
Russian Federation.


Subject: Performance of Izolyator make RIP bushing 420kV/1250A-6Nos , 245kV/2000A- 6 Nos and 52kV/3150A- 6 Nos supplied and commissioned on 2 Nos. 500MVA – CGL make-Transformer at 400/220kV Bamnauli S/Sin through Power Grid Corporation of India Ltd.



Ref: Your letter no. Izo/Bamnauli/2018/01-Per and mail dt 10.11.2018

This is to certify that following Izolyator make RIP Bushing have been commissioned on 2 Nos 500MVA-CGL make transformers at 400kV Substation Bamnauli, DTL through Power Grid Corporation of India Ltd. under strengthening of Transmission networks of Delhi Transco Ltd. vide NOA ref. CC-CS/595-NR1/TR-2811/3/G6/NOA-I&II dated 19.12.2014 awarded to M/s CGL:

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3. 6 nos 52kV/3150A RIP Bushing having serial no 65665, 65600, 65866, 65699, 65666, 65601.

The above Izolyator make RIP Bushings are successfully commissioned on dt 15.07.2015 and 16.08.2015 and are performing satisfactorily till date. There have not been occurred any problem with maintenance.


S.K. Singh
Manager(T)
400kV Substation Bamnauli

  Office: (400 kV S/Stn. Bamnauli, Najafgarh – Bijwasan Road, Village-Bamnauli, PO: Dhaol Sras, (Dwarka Area) New Delhi – 110077
Tel/fax :- 011- 65005601,011-65005602 Email: mgr.bmn@delhitransco.gov.in
managerbamnauli@yahoo.co.in
Regd office : Shakti Sadan, Kotla Road, New Delhi – 110 002
Visit us at www.delhitransco.gov.in



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.

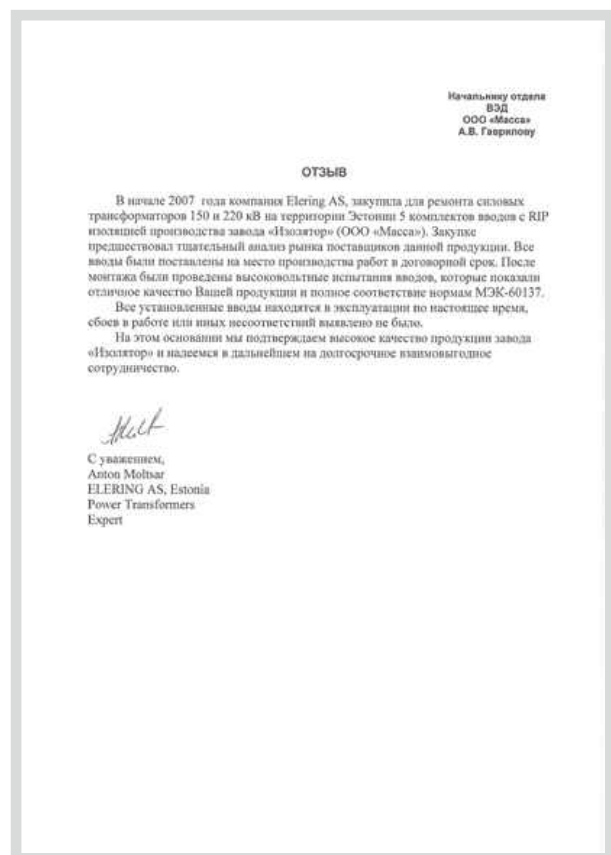
The deal was forerun by a detailed analysis of the supplier market for this product. The bushings were delivered to the installation facility on time.

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





CESI is an independent center of expertise and a global provider of technical and engineering services to customers throughout the energy value chain, including business and technical consultancy, engineering and operational support. The center acts as owner's engineer and provides qualified third-party opinion to power utilities worldwide.

Test Report from CESI

A protocol of successful seismic tests of a 420 kV transformer bushing, made by Izolyator, came from CESI laboratory in Italy.

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

TEST REPORT (TESTO) - CONFIDENTIAL (M)

Test Report

Document No.	86013361	Copy No.	1	Number of pages	62
Apparatus	Bushing for Transformer 420 kV				
Designation	TCSN-90-4201250				
Serial Number	35596-201605				
Manufacturer	Mesa LLC (Izolator Company)				
Client	IZOLATOR Company Izolator Company (Mesa LLC) 77 Lenina st., Pafnoodkaya Sobolsk Village 143581 ISTRA DISTRICT, MOSCOW REGION Russia				
Tested for					
Date(s) of tests	June 08 - 09, 2016				
Tested by	CESI - LPS Laboratory Testing & Certification Division Via Padovana, 9 24068 SERIATE BG - ITALY				
Test performed	Seismic Test				

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this document has been subjected to the series of proving tests in accordance with:
IEC 60068-2-57:2013
IEC 61463:2000
Specification POWERGRID Co. of India

The results shown in the report of proving tests of the apparatus attached herein. The general performance is found as mentioned above, the responsibility for the description and construction of the apparatus.
The document applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same configuration with that presented with the document.

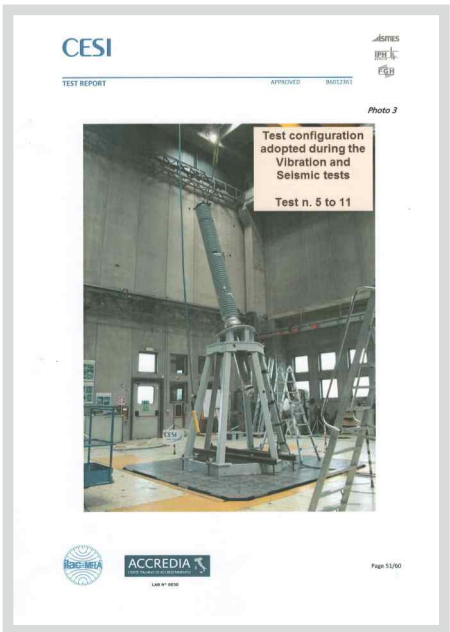
June 24, 2016

Date: *Signature: Paolo*
Test Engineer in Charge: *Signature: Paolo*
Approved By: *Signature: Paolo*

Final certification of this document is provided only with the counter signature from CESI Group.
The signature of the Test Engineer in Charge is the only one valid.

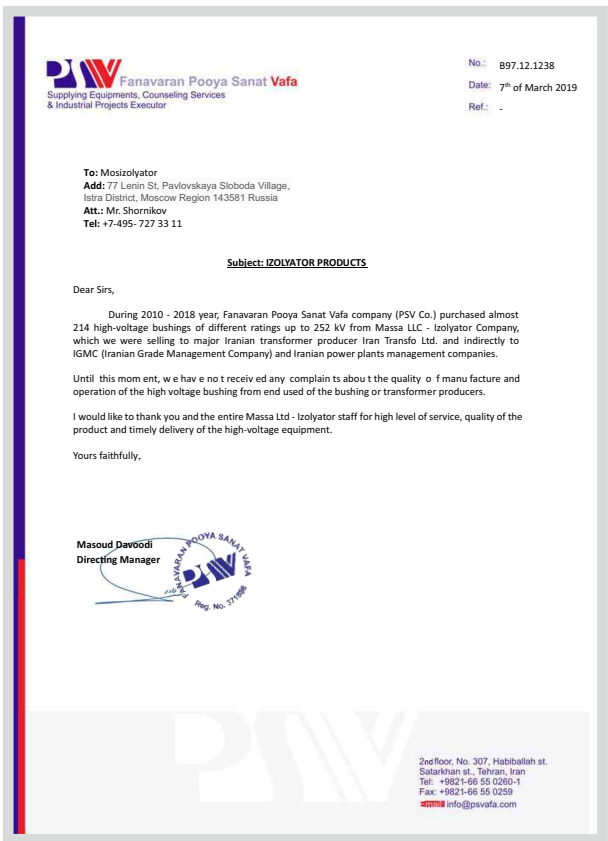
ACCREDITED BY: *Signature: Paolo*
LAB N° 0016

测思
CESI
Trust the Power of Experience





Fanavaran Pooya Sanat Vafa (PSV) provides industrial equipment, particularly equipment needed in the Iran power and electricity industry, providing engineering services for domestic manufacturers and educational services for their employees.



Thank You Letter of Fanavaran Pooya Sanat Vafa

During 2010–2018 year, Fanavaran Pooya Sanat Vafa (PSV Co.) purchased almost 214 high-voltage bushings of different ratings up to 252 kV from Massa LLC — Izolyator Company, which we were selling to major Iranian transformer producer Iran Transfo Ltd. and indirectly to IGMC (Iranian Grade Management Company) and Iranian power plants management companies.

Until this moment, we have not received any complaints about the quality of manufacture and operation of the high voltage bushing from end users of the bushing or transformer producers.

I would like to thank you and the entire Massa LLC — Izolyator staff for high level of service, quality of the product and timely delivery of the high-voltage equipment.

Masoud Davoodi
Directing Manager



Comercial Especializada de Materiales, S.A. de C.V. (CEMSA) is a Mexican based company that installs, services and upgrades power transformers, reactors and other electrical equipment.

CEMSA also sells components for power transformers.

The company is headquartered in Mexico city.



Thank You Letter of CEMSA

Comercial Especializada de Materiales, S.A. de C.V. held successful negotiations with Izolyator plant regarding the purchase of a 420 kV RIP bushing to replace an outdated analogue on a transformer, which is being repaired at CEMSA now.

There was also a virtual tour of the Izolyator production complex, where we got acquainted with the key stages of modern technology for high-voltage bushings manufacturing.

We highly appreciated the results of the talks, as well as the technical level and production potential of the supplier.

As a result, CEMSA decided to place an order for a 420 kV bushing at Izolyator plant'.

Commercial Director
Macario Ramirez



IZOLYATOR SALES DIVISION IS INVITING TO SET UP COOPERATION IN ANY SUITABLE FORM FOR YOU

THINKING OF BECOMING OUR PARTNER?

We will provide you with extensive information on commercial, organizational, technical and other aspects of our company activities.

HAVE QUESTIONS YET?

We will submit all information in hard copy
or by email on your first request.

WOULD YOU LIKE TO VISIT OUR PLANT?

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

Izolyator sales contacts:

Massa LLC
77, Lenin street, Pavlovskaya Sloboda, Istra municipality,
Moscow region, Russian Federation, 143581

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For more details on our products and services
visit www.mosizolyator.com

