

REFERENCES

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Power Generation

Thermal, nuclear and hydro energy



Power Transmission

Long distance, regional, municipal power lines



Power Consumption

Industry, transportation, oil and gas

2019

MISSION. VISION. SOCIAL RESPONSIBILITY.



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

Our Vision

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

Social responsibility

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



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

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

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

> Alexander Slavinsky, Chairman of the Board of Directors Izolyator Vice-President AES RF, Vice-President TRAVEK Association, CIGRE Study Committee D1 Regular Member Doctor of Engineering Science

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FACTS AND ACHIEVEMENTS



PRODUCTION CAPACITY



12 000 BUSHINGS PER YEAR





STAFF







EXPORTS TO

30 COUNTRIES IN THE WORLD

TRACK RECORD OF DELIVERIES ALL OVER THE WORLD

2

COMPANY STRUCTURE

Special design bureau

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

Production

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

Test center

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

Service center SVN-Service

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









DESIGN PRODUCTION TESTING WARRANTY AND POST-WARRANTY SERVICE

COMPLETE RANGE OF



Geography of deliveries





We appreciate all our parners! Izolyator is official supplier of





References of power grid systems in Russian Federation



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



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



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



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







NI 13-7/15

ПРОИЗВОДИТЕЛЬ / ЗАЯВИТЕЛЬ

ODO «Macca» (MO, c. Παθησεικαι Cnotoga)

ОБОРУДОВАНИЕ

Веоды высоновольтные типа ГК на пактонличи (чело на размещения 1 от 252 до 550 и 8 клижатического и осполнянии О, категории размещения 1 в соотверствии с ТУ 3493-802-31317133-2008

СООТВЕТСТВУЕТ ТЕХНИЧЕСКИМ ТРЕБОВАНИЯМ И РЕКОМЕНДУЕТСЯ ДЛЯ ПРИМЕНЕНИЯ НА ОБЪЕКТАХ ДЗО ПАО «РОССЕТИ»

1 14 01 2015 North 15 (3AX/TROMENSAE/APTECTA

Р.Н. Бердников

etopa TIAO +Poccera

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

№ 13-4/15 Manufacturer/Applicant Izolyator plant / Massa Ltd (Moscow Region, Pavlovskaya Sloboda)

Equipment

High-voltage GKT bushings for high voltages from 24 to 172 kV, in O-type climatic execution, 1 application category compliant to TU 3493-001-31317133-2008 (except 27 kV GKT type bushings) Complies with Technical requirements and is recommended for application on subsidiaries and branches facilities of ROSSETI Plc (approved by attestation board on 14 January 2015 #I3-4/15).

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

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

№ 13-7/15 Manufacturer/Applicant Izolyator plant / Massa Ltd (Moscow Region, Pavlovskaya Sloboda)

Equipment

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

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





СООТВЕТСТВУЕТ ТЕХНИЧЕСКИМ ТРЕБОВАНИЯМ И РЕКОМЕНДУЕТСЯ ДЛЯ ПРИМЕНЕНИЯ НА ОБЪЕКТАХ ДЗО ПАО «РОССЕТИ»

DWC/IO/EDHINE ATTRECTAL/HOMHOW KOMHOCHWI OT 14.01.2015 No 13-5/150

Р.Н. Бердникое

Лервый заместитель Ленерального дирестира ПАО «Россети»

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

№ 13-6/15 *Manufacturer/Applicant* zolyator plant / Massa Ltd (Moscow Region, Pavlovskaya Sloboda))

Equipment

High-voltage GKV bushings for high voltages from 40.5 to 252 kV, in O-type climatic execution, 1 application category compliant to TU 3493-003-31317133-2008 Complies with Technical requirements and is recommended for application on subsidiaries and branches facilities of ROSSETI Plc (approved by attestation board on 14 January 2015 #I3-6/15).

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

Rosseti Plc, certificate for GKL type bushings for 72.52–252 kV voltage range

№ 13-5/15 *Manufacturer/Applicant* Izolyator plant / Massa Ltd (Moscow Region, Pavlovskaya Sloboda)

Equipment

High-voltage GKL bushings for high voltages from 72.5 to 252 kV, in O-type climatic execution, 1 application category compliant to TU 3493-005-31317133-2009 Complies with Technical requirements and is recommended for application on subsidiaries and branches facilities of ROSSETI Plc (approved by attestation board on 14 January 2015 #I3-5/15).

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





Att. of Power Grid Corporation of India Ltd., Saudamini, Piot No.-2, Sector-29, Gurgaon-122001, Haryana, India Tel. +91-124-2571706-19 (Exta. 2348/3325); Fax.: +91-124-2571831

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TO WHOM IT MAY CONCERN

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Федаральная Станова

03.07.2015 1975

Dear Gentlement

ской Систрен.

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 buildings for the needs of our Company. Below herewith we are kindly informing You on the list of HV hushings, ratio 500kV/150A, 500kV/150A, 500kV/250A, 800kV/315A, with intransi solid resit impregnated paper (RP) 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 Euergy 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.

			D-50518, D-54083, D-50548 D-52547, D-83430, D-48051 D-40053, D-48759	ų	
SODKV/1600A (Ireneformer)	MILVE 890355.173	2013	15-30608 (1-20738 15-46001, 15-46808, 15-45854 15-46904, 15-48212, (2-45089 15-46548	4	
a constant of the	No.	2012	13-40271	1	
sooky (2500A Branstormer)	Milex0-686354-001 MBEK0-686354-002	1999	44960		-
granetermer)	MBYE 685365 172 MBYE 686365 146-01	2008	Fi-062021 Fi-10840 Fi-12457 Fi- 13488 Fi-15598 Fi-16544 Fi-08181 Fi-13764 Fi-12832 Fi-12741	10	
		2009	11-19736 (1-19088 KI-19461	3	1
		2010	11-24454 11-25803 11-22900	1	1
		2011	0-13380 0-39932 0-40001 0- 40647 0-22158 0-22850 0-24228	1	
		3013	F-42246, FI-40657, FI-40614, 71-41087, FI-41210, FI-40933, FI-41427, FI-30607, FI-42008 FI-41266, FI-41538	33	
		2015	15-54000, 11-50428, 13-54432 13-54433, 13-51960, 17-40050	ii i	
			15-52074, 13-52210, 13-45853 (3-43036, 13-52018, 15-50281	19	
BOOkV/215A	HILVE 680356 105	2015		7	55

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, GORT 10693 standard and normative documents. All high-voltage bushings mentioned above have passed successfully all type and routine tests and are successfully operating up to the present time since their commissioning. There have not been occurred any problem with installation, commissioning and maintenance.

A successful experience in development of the partnership relations between Massa LLC and JCS FGC UES allows to recommend Massa LLC - zeolyator 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 strategical 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 RIP-insulated bushings

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

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





In this course of many denides, from the moment of agreemence of Electrical Power easier is Ratasian Federation and up to the person day Massa LLC – ERGUXATOR factory mann our regain supplier of halps (voltage buildings for the needs of our Company, Below retwith we are kindly informing You on the list of HV buildings, rated. 500kV355A, MOV1060A, S00kV250A, which internet solid rense improgramed paper (RPF) would into thich have been developed, designed, manufactured, type tested, unpilled , installed by Inaua LLC at the facilities of antidivision companies of JSC Federal Geld Company of Inaua LLC at the facilities of antidivision companies of JSC Federal Geld Company of





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

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

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







ажением уважением,
 Исполняющий обязанности
 заместителя Председателя Правления – главного инженера С.В. Попон Кирюшкина Н.Л. 8-800-18-81, доб. 31-58

Reference of Federal Grid Company

TO: Chairman of the Board of Directors

Dear Alexander,

As result of our announced tender for long-term highvoltage 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 eqiupment.

Let me express our gratitude for timely and guality 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.

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





Thank-you letter of FGC UES

Hereby, I wish to experess 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 benefitial cooperation.

With wishes of successful development,

Deputy Chief Engineer A. N. Zhukov



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





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





MES West Siberia Reference letter

Our company contracted Massa Ltd under long term agreements #26-12/p dated 20 April 2012, #53-13/p dated 20 June 2013 and #65-13/p dated 17 September 2013 for high-voltage bushings

supply for our maintenance program and the emergency reserve of the FGC UES – MES West Siberia branch.

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

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

Massa ltd has proved a reliable partner throughout our cooperation.

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





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





Reference Letter of MES Center

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

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

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

Massa ltd has proved a reliable partner throughout our cooperation.

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





Main Power Transmission Lines of South (MES South) is a branch of FGC UES operating in Southern and North Caucasus federal states. There are 11 subjects of Russian Federation with over 19 mln population in the service area of the branch.



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Поматичновини отнела	Председателно Совета директоров ООО «Масса»- завод «ИЗОЛЯТОР»
Star Destruction	А.З.Слалинскому
Rander	Факе:. +7(495) 727-27-66 Тел: +7(495) 727-33-11
Ситаправления отзыва	
Уважаемий Александр	Зиновьевич!
На подетивники МЭС Юга в рамках выпо- техантреского обслуживаниях и ремонта обсор резерва бали приобретены и ОСО «Массан- насоковолитите вводы С RIP - полацией техноволиям. В период с 2012 по 2014гт их количе различным классом изпряжения от 1108Д - р секторов'ю оборудование, так и для массаным масла. За период эксплутатити на ПС МЭС заревоментовной в марежиству и кариторовсти условиях, протектия и во исслету и кариторовсти Счатием, что данное борудование исслугатием, что данное борудование исслугатием.	удования, пополнския аларийного - закод «Иколитор» и замеснены катотоклептые по современным вство соетявнико цорядка 214 игг, с во 500кВ, как траноформаторно с вылогочителей с большим объемом Пота вышеуказанное оборудование ко рабогать за разных, клижантеских иге в настоящее нремя пот. с обладяет достаточных щон рамм, ней различных программ,
Перпай замоститель темерального директора - Гдамией известер терешами С.В. 23 49. (1973) 569-43	ИЗА Г.П. Ковгуп
6× N X 1 Cm 2210.1	4
WE HAVE COUNTRIES	

Reference Letter of MES South

MES South has purchased Izolyator's (Mass Itd) 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.

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





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

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





Reference Letter of MES North-West

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

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

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

Massa ltd has proved a reliable partner throughout our cooperation.

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





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





Reference Letter of Kuzbassenergo-RES

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

- GKVIII-60-126/2000 01 (IVUE.686352.132) bushing - 4 pcs

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

We have no quality claims on the above mentioned equipment.

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





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





Reference Letter of Krasnoyarskenergo

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

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

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

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





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





Reference Letter of Altaienergo

Herewith please be informed that Altaienergo, branch of MRSK Siberia JSC, purchased 127 Massa Ltd-made high-voltage bushings from Innovations and Business in Power Industry CJSC within 2011–212:

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

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





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





Reference letter of MRSK Center and Privolzhye JSC

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

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

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





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





На № _____ОТ _____

О предложении безвозмездной поставки продукции ООО «Масса»

Монстроизлыки исследушествии селета контония О А О им Р С К. С Е В Е Р О - 3 А П А Д А Полнан деят клада, конструкт 1, лин 4 Полнан в 12 2010 и селет деятелисторов Предостати предстати предстаторов

ООО «Масса» А.З.Спанеряскому ссия, 143581, Московская облас

Котана, 1975 в район, с. Павловская Слобода, ул. Левина, 77, ООО «Масса». Тел. (495)727-3311 Факс (495) 727 2766 Е-mail: mosizolyator/ijimosizolyator.ru www.mosizolyator.ru

20 1

Уважаемый Александр Зиновьевич!

В ответ на Ваше письмо от 08.11.2013 за № 01/312 сообщию, что при имеющих место нарушениях в работе оборудования МРСК «Северозапада», при прохождении урагана «Святой Иуда» в октябре 2013 года, пореждения водов не выявлено. В сезнохмедной поставке Вашей продукции - высоковольтных водов необходимости нет. Выражаво Вам свою благодарность за оказанную поддержку в работе зо устранению изрушений, вызванных неблагоприятными погодными словиями в октябре 2013 года.



Коршунов П.С. (\$12)305-1010 доб.380.

Reference Letter of MRSK North West

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

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





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



Reference Letter of Togliatti Transformer

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

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

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

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



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

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



Reference Letter

Power Machines - Toshiba. High-voltage transformers Ltd has enjoyed a successful and longstanding cooperation between our two companies in respect to high-voltage equipment supply. During our joint activities, Massa Ltd lzolyator 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 highvoltage 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

SV**E**L

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

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*

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		Уважаема	ай Иван Динтриевич!	
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For several years, OOO 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 Elektrozavod

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

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ОТКРЫТОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО «Производственный комплекс ХК ЭЛЕКТРОЗАВОД» (ОАО «ЛК ХК ЭЛЕКТРОЗАВОД»)			
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la Ne	ot		
		Председателю Совета директоров ООО «Масса» - завод «ИЗОЛЯТОР» А. З. Славинскому	
	Уважа	немый Александр Зиновьевич!	
высокого кач ООО демонстрируч заслуживает , Руково профессиона, завода «Изол эксплуатация производства	ества, соответству "Масса" - завод т свое лидерств доверия как надеж одетво ОАО П ниски, оперативнук ятор». Также хот о и дальнейшим кся на дальнейшие	ото противантели насооколлных вводов неготменно повето современные стандарта и требования. «Изваторь за свою более чем всеховую петерино о на рынке зостернорнеретического оборудования за нали политина партнер, и современные современные и соборудования за о честоро вборе зовмостресов и словеност миссовий да оточетить успешный опит установка, населением и обосудаванные высоконологитых вводов Ването ваниовыгоцию сотрудничество. Калона и современные во современные и А. Ю. Андрианов	
Гранаская А. В. +7 (495) 777-82-34 (а)	012121817		



Reference letters of Manufacturing complex of Elektrozavod

The successful partnership experience that has developed for decades between MC HC ELECTROZAVOD JSC and Izolyator plant allows us to recommend you as a successul manufacturer of high-voltage bushings of consistenly 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**



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



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.

www.ztr.com.ua		ケム 伝え
ЧАО «Запорожтрансформатор» Днепровское шоссе, 3 Запорожье, 59500, Украина	Тел. +38 (061) 2703900 Факс +38 (061) 2703739 E-mail: <u>office@ztr.com.ua</u>	Сароводнтванной От 01.12.2017 № 1/25-1331
ООО «Масса» Председателю совета директоров З. Славинскому	1	
Ув	ажаемый Александр Зиновы	PN84
надежного партнера, производите Мы высоко ценим такого отметить высокий профессионали и профессионализм, а также всег	аля и поставщика высоковоль партнера как ООО «Масса как острудников предприяти да неизменно высокое качест продуктивное сотрудничества	 в - завода «ИЗОЛЯТОР» и хотим я, слаженную работу, оперативность гво поставляемой нам продукции.

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ПАО «Запорожтраноформатор» Диепропетровское шесое, 3 Запорожие, 69600, Украина	Тел. +38 (061) 2703900 Фана +38 (061) 2703739 E-mait office@ztr.com.ua	or 07.07.2015 Ni 1/25- <i>GM</i>	
ОСО «Масса» Коммерческому директору – Переому заместителю Генер Панфилову И.Д.	ального директора		
Уважаемый Иван Дмитриеви	м,		
	Масса» (завод «ИЗОЛЯТОР») на икое высоковольтных вводое для ктрансформатор».		
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В последние годы ООО выпускаемую продукцию	Масса» демонстрирует готовност с учетом рекомендаций ПАО как ответственного и надежного п	 улучшать и со «Запорожтраноф 	нершенствовать
С уважночири, И.С.У.С.Сомин Директор по закупкам и логи	CT exc)		

Reference letters

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

The longstanding experience of partnership development between Massa Ltd - Izolyator plant and Zaporozhtransformator JSC allows us the 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 Chirchiq transformator zavodi appreciates Massa Ltd for cooperation in supply of transformer high-voltage bushings.

Power transformers of AO Chirchiq 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, Bolgaria, Poland, Iraq, Iran, Cuba, Guinea, etc.

During our partnership with Massa Ltd, transformer highvoltage bushings, delivered to AO Chirchiq 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**

References of Power Industry and Heavy Industry enterprises of Russia and CIS 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.

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филиал ТЗЦ-22 2 (200) 201 24 11, (200) (47 26,08,2013 . 222-13-29/539

ый Константин Георгиевич! Vag

Уважаемыя Констинтии I воргненич: 18 июля 2013 года специалистваем Завода «Изолятор»» «ООО «Масса» А.В. Пилоотивным и Д.И. Шурытивая проязведеная замена в условиях ТЭЦ-22 филмала ОАО «Мосэнерго» поврежденного резинового уплотнения и релиновых произадок в верхней части вкода типа ГКТ II-45-220/2000 ОІ, зав.чертеж ИВЕЮ.686353.2002, зав.№ II-97817, установляенного па фазе «Ж» приноформатора ТДЦ-400000220 ст.М». Бангодарим Вес за оперативно оказаваную помощь в устранении дефекта оборудования, ответственное и профессиональное выполнение работ. Завод «Изолятор» «ООО «Масса» - это выдежный и ответственный партнер, специалиясты которого хорошо знавот смое дело.

CNP

Директор

Г.А. Кузян (495) 551-32-36

С.Г. Куприянов

- «000 «M

Reference Letter of TETs-22

Dear Konstantin Georgievich,

On 18 July 2013, A.V. Pilyugin and D.I. Shurygin, specialists of Izolyator plant — OOO Massa, have replaced on site of TETs-22, branch establishment of OAO Mosenergo, the damaged rubber sealing and rubber gaskets in upper part of the bushing of type FKT 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 — OOO Massa is reliable and responsible partner, personnel of which is highly competent in their field of business

> Director S.G. Kupriyanov



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.

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О работе высоковольтных вводов 750кВ	
Уважаем	ный Сергей Борисович!
производства ООО «Масса» (завод ООО «Масса» уже на пр поставщиком высоковольтных ввод Поставляемая продукция Ван соответствует требованням ГОСТ, 5	ротяжении многих лет является постоянным дов в адрее Ленинградской АЭС. цего производства неизменно высокого качества, международных стандартов и ТУ. авки, комплектации, качеству и эксплуатации
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Л.Н.Тахтаров тел.51139	

Reference letter of Leningradskaya NPP

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

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

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

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

> Chief Engineer K.G. Kudryavtsev



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



Reference letter of Smolensk NPP

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

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

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



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



Reference letter of Volzhskaya plant

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

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

Branch Director S. N. Bologov



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 uninterruptible delivery of electricity to the Western Yakutia.

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

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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



State enterprise providing electric power to consumers in Minsk and Minskaya region, heat supply in citiesMinsk, Molodechno, Zhodino, Borisov, Vileyka, Soligorsk, Slutsk and settlements Rudensk, Druzhny, Svisloch. Part of State Production Association Belenergo.



Reference Letter of Minskenergo

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

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

> Deputy Chief Engineer *A.A. Goranin*



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

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			льному дяректору Западный проект» - С.Н.
Об эксплуатация высоковольтных в	водов	200.90	
ООО «Масса» РФ В РУП «Ви «В производства С За время з «Масса» РФ замоч	сообщаем следующе тебскинергов эксплуа ЮО «Масса» РФ, «ссплуатации высок авиом техническом	е. тируются высокової оводі/пих вводов тей на выявлено. Ві	инодов производства залинае вводы 110-330 производстив ООО асоковсялицые вводы асото соответствуют
Заместитель гланя	ого инженера 🧹	64	С.А. Посохов

Reference Letter of Vitebskenergo

On operation of high-voltage bushings.

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

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

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

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



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



Reference Letter of Mogilevenergo

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

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



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



Reference letter of Barki Tochik

Tajikenergosnab, 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 lzolyator, 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).

имферополь, ул. Киевская, 74/6 гел./факс +7 (3652) 24-85-01 ЭНЕРГО опроизводства и к 52) 27-23-24, фако ГУП РК «КРЫМЭНЕРГО» 00 mi ГОСУДАРСТВЕН УНИТАРНОЕ ПРЕДПРИЯТИЕ РЕСПУБЛИКИ КРЫМ «КРЫМЭНЕРГО» 17.05. 2017 No 1412/170 ООО «Масса» Директору направления стратегических продаж А.А. Савинову кс: (495) 727-27-66 osizolyator ru Отзыв о работ Уважаемый Александр Александрович В ответ на Ваш запрос сообщаем, что в настоящее время на ПС-330 кВ «Ссвастополь» ГУП срамонро» в эксплуатации находятся три высоковольтных ввода типа ТКПШ-60-330/1000 С.866333.171 на класе напряжения 330 кВ производства компании «Нолатсри». Срос эксплуатации гри года. При проведствии исплатаний, установки па оборудование и ввода в работу нарушений испровано всбаль. Все необходлимые требовании к техническим параметрам, комплектации, гау высоковольтных вводов, а также к объему требуемой документации выполнены в полном не оборудование вся водов, а также к объему требуемой документации выполнены в полном время эксплуатации высоковольтных вводов дапного типа нарушений не зафиксир я продукция работает в штатном режиме. С уважением, меститель технического директора электрическим сстям 220-330 кВ Ter/ Н.В. Фелопор

ЦСП Шор Семен Яковлевич 59-12-60

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.

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



JSC Georgian State Electrosystem (GSE) is a 100 % stateowned 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

Nixtorecomm microsoft		ფო ელექტროსისტემა / Georgian State Electrosystem istr., Tbilisi 0105, Georgia: ტელ./ფაქსი/Tel/Fax: +995 322 983704; +995 322 510101
UNIA	7-2-201710180943	N 4840/07 18/10/2017
		Председателю совета директоров ООО «Масса» Г-ну Спавинскому А. З.
Увах	каемый Александр Зиновье	8174,
на о АО	снове соответствующих дол «Государственной Электр	ут 02.10.2017г сообщаем, что в период с 2014 по 2016 год говоров (№60-7-114-331; №60-7-115-178; №60-7-116-64) осистемой Груни» были закуплены и введены в к высоковольтных вводов производства ООО «Масса».
пост	авленная продукция завода	рственная Электросистема Грузии» подтверждает, что ООО «Масса» соответствует требуемым стандартам и в ибо несоответствий выявлено не было.
Сулх	ижением. ан Зумбуридае (седатель Совета Правления	1. Gy/

Reference letter of Georgian State Electrosystem

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

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

Sincerely, Sulkhan Zumburidze Chairman of the Board



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.

Sincerely yours, Director of Aetos Ltd.

Tamaz Sharikadze



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

trade	CHEMTRADE Maisi 12-1 10317 TALLINN ESTONIA	ESTONIA OÜ Reg. nr.: 11594385 Tel:+372 660 10 50 Fax:+372 660 10 50
№181217-01 17 декабря 2018	заместитель	сому директору 1-му о генерального директора лю направления продаж
- 		
ООО «Кемтрейд положительный опыт со вводов 750 кВ.		ит ООО «Масса» за поставки высоковольтных
соответствовала техниче имела дефектов. За время нашего дальнейшей работе по спецификаций к договору	еских характеристикам сотрудничества на г согласованию техни у все вопросы решались	а завода продукция точно паспорта качества и не преддоговорной стадии и ческих характеристик и оперативно, что указывает
на высокий профессионал Желаем успешного	1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (1999 (199	Масса». новых вершин в бизнесе.
С уважением Член Правления Дмитрий Никулин	-	
Maisi 12-1 10317 TALLINN ESTONIA	Tel:+372 660 10 50 Fax:+372 660 10 50 e-mail: <u>chemtradeestonia@</u>	Reg. nr.: 11594385 VAT: EE101294715 yahoo.com

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 highvoltage 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.

Sincerely yours, 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.

Sincerely, 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



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

Sibirskaya Electric-Installation Company

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

ZABS Electro

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

14.07.2017 № ДУП-383 на № от	Генеральному директору ООО «Масса» Компания Изолятор
	Монсееву С.Б. Факс: (495) 727 27 66
О высаковальтном вводе 400кВ Объект: Волжская ГЭС	
Уважаемый Серг	ей Борнсович!
высокопольтный ввод ГНТШ-60-(+/>4/00/125.00) успешию введен в эксплуатацию на Волжско «Комплекс работ по поставке и замене высоког 2016г. До настоящего момента, каких – либ функционирование высоковольтного ввода со ст и е поступало.	й ГЭС ПАО «РусГядро» в рамках титу юльтных трансформаторных вводов» в иго о нареканий на качество изготовления ороны Волжской ГЭС в адрес ОАО «ВНИИ а» Компания Изолятор за своевременную
Заместитель генерального директора по реализации проектов	- Жилени н.в. Лобанов
Петров В.Г. (8352) 39-00-48	

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 highvoltage 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.

PR01 : O/O /NP2	PIDNE NO. : 391 51 53796	MAR. 05 2011 12:53/M P1
Ачинский неотепсия нель <u>211, 51 го</u> 55,02,3		бточ- 55 мара-енек бала ай Франй нефт йнэй Компанийи
-9		Начельнику отдала продаж СОЗ «Изопятора Харитениу Мала Факс 8(495) 727-22-С9. е maikOze@mocizoyetor.ru
Ув	ажаемый Михаил Алакса	ндрович!
На САС «АНТО ВНК» с 20 на мосленые выкоточателя «Масса» (завод Изолятор) – дниманае возда ногу – везда на масляные в – везда на масляные с личеные возда на масляные с личеные возда но масляные но изолицией. За время эксплуатации ма но, данные возда прости ны мас рамантски тробуюто	и напряжением 110 кВ и На данное время заямансных раждением 110 кВ – 27 шт.: выжлочатели напряжением выклочатели напряжением коной наружной изолицина, (коюк заямечаний и нарушен коюк заямечаний и нарушен и заобны в эксплуатеции. Пр	на ланойчьок коодов и якодов 220 кВ прокаворстве ООО 10 кВ – 4 шт. Каклана с фаффоровой наруж- на в работе яводов но выявле- озееде-не технушки и каклан- озееде-не технушки и каклан-
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Reference letter from Achinsky Refinery

Bln 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*



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

References of foreign customers



SIEMENS

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

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

Auditor	K. Mogi M. Kascheriko I. Ventstanly T. Zevelshina (partly)	Date of Audit	30 June 2012	Close of Audit	22 June 2012
Participanta	A Gaution, A Novikov.	T. Simulava, K. S	lçikin		
Audit-10:	CM-BU-Izotyanor- Russia 20-June-2012	Supplier	teolyator Plumma	Product Process	Condensor Bushings
25 <i>1</i> 988	product rela	nmery: ated part	839		
	Sur	nmery:			
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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.

Power Transformers Division (T1): Power Systems Kanjar Marg (Sast), Mundar 400 642, India 1: - 41: 22 6756 8000: F - 44: 22 8756 800	- Indi talama
	3 ⁸⁰ March 2014
TO WHOM IT MAY CONCERN	
Subject: Performance report	
Transformer division (T1) of Crompton Greave ZOLYATOR MAKE 3 NOS 600 KV 800 AMP, RI 30519 and 30622 manufactured by OOO M testing transformer since April 2013.	P bushings with Serial Nos. 30016,
We have tested 9 Reactors using this reactor total duration of approx. 9 to 10 hours till date.	
Hereby we certify that performance of thes transformer is satisfactory.	e RIP bushings on reactor testing
Best regards	
For Crompton Greaves Ltd.	
Mumbai, India.	
Registered Diffux GE House, No France, Resear Fourt, Work, Wardsar ADI SSL, India 7. 472 2020 J 777 F - 473 2 2421 7751 W. www.cggisted.com	O AVANTHA

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.

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

Certificate of Offic	ial Supplier to	Crompton	Greaves
Limited			

CG Electric Systems Hungary 2rt. Repotent Office 1016 Biotopert Makeny etra 7 11, -56 1 433 9000 W. energythet.com	En const.
We hereby certify that IZOLYATOR Massa	a Ltd. Company is a
Certif	ied supplier
Based on the initial approval audit perfor	of CG Electric Systems Hungary Zrt.
based on the initial approval audit perfor	med on the Sch of July 2011.
	Certification No.: 02/2011 Valid until: 14.07.2016
Budapest, 14.07.2011	
Csaba Baráth Lead auditor	
	AVANTHA

KONČAR

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.

		Končar PowerTransformers Ltd.
		A Joint Venture of Siemans and Kontar
		Name Hatala Maryos Deserveri Plans - 1 (M1227-11)1 Fan - 1 (M1227-21)n Simet - 1 (M1227-21)n
Subject Reference from K	ončar Power Transformors Lbt.	
All the builtings were delive	D Massa for large power transformators (red on time and with the agreed terms	80, 125 and 200 MVA (
recording to past expension elandards regulation	a in wolking with OOO Massa we can cor	nhrm quality of products and all other
	n wolking with OCO Massa we can or	nfrm quality of products and all other .
ellandards regulation	KONCAR - ENERGETSA TRANSFORMATORI - A TRANSFORMATORI - A TRANSFORMATORI - A TRANSFORMATORI - A TRANSFORMATORI - A	film quality of products and all other (



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 transformators (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



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.

(B	EST) EVALUATION OF SUPPLIER QUALITY QUALIFICATION	Report No:2017-13 Date: 17/05/2017
4.	Evaluation Result Supplier Name : MASSA LLC - Izolyator Company	
4.1.	Non-Conformities inspected during Audit and Corrective-Preventative Actions to be Performed	
	4.1 Incoming material criterias should be detailed, a Quality Plan for Incoming Material Inspection.	
	4.2 Risk analysis should be performed at mechanical production,	
	using of personal protective devices should be encouraged.	
4.2.	Result of Evaluation	÷.
4.2.1.	Q = %89,85 Quality System is Very Good	
	Signatures of Auditors	
	Halim ÇELİK / Quality Control Ali Rıza DENİZ / Procurement Mahmut AKSOY / Design	

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

Evaluation Result and the official report on the audit



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.





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

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

Massa LLC (Izolyator Company) 77, Lenina Street, Pavlovskaya Sloboda Village, Istra Distriet, 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/Stn through Power Grid Corporation of Indial 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-1&II dated 19.12.2014 awarded to M/s CGL:

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Office: (400 KV S/Sin, Bannanil, Najafgarh – Bijwaan Road, Village-B PO- Dibod Sirar, (Dwarda Area) New Dehh – 1100 Telfax :- 011- 65005601,011-65005502 Email: <u>machagerbannaul@yah</u> Regd office: Shaki Sadan, Kotla Road, New Dehh – 110 002 Visit us at www.dehhitransco.gov.in

S.K. Singh Manager(T) 1001-V Sub-

64



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.

	Havani-inney organ 830 OOO affaccas A.B. Faapunony	
	ОТЗЫВ	
трансформиторов 150 и 220 изосницей производства зам предшестновки тиательный изоди были поставлены на з монтака были пропедена на отлачное вмусство Ваней пр Вее установленные выс сбоев в работе или инах не На этом ослованти мы	япания Elering AS, закупна для ремонта сиховаах кВ на территории Эстонии 5 комплектов яводов в В ода «Изолатире (ООО «Масса»). Закупе апалия ранная поставлінков данной продукцин. Все весто проятновидстви работ в договорной брок. После асоховольтикае испатиння высодов, которые показали получкини и полное соответствие нормахи МЭК-6013 дая находятся в эксплуалации по настоящее время, полтверждаем высокое качество продукции завода пынейнием на долгосерочные назымовытодное	i 7.
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Huch		
C yaaraennew, Anton Molisar ELERING AS, Estonia Power Transformers Expert		

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

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.



PARTNERSHIP



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THE WHOLE

RANGE

OF HV BUSHINGS

FULL RANGE OF HV BUSHINGS 12—1200 KV AVAILABLE



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Sales department of



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DMITRY ABBAKUMOV Deputy Sales Director



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

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

NEED MORE INFORMATION?

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

WOULD YOU LIKE TO VISIT THE PLANT?

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

Izolyator sales department contacts:

Izolyator Company

(Massa LLC) 77, Lenina Street Pavlovskaya Sloboda, Istra district, Moscow Region Russia, 143581

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