

**Component Manufacturers List of Power Transformer & Reactor upto 765KV class**

<b>ITEM</b>	<b>VENDOR NAME</b>
PICC/CTC	M/S ASTA, AUSTRIA
PICC/CTC	SAMDONG, KOREA
PICC/CTC	SHANGHAI YANGHANG COPPER MATERIAL CO., LTD
PICC/CTC	XI'AN HUALONG ELECTRICAL MATERIAL CO., LTD, Co. Ltd., Approval valid up to 31.10.2015
PICC/CTC	BAODING TIANWEI ELECTRIC WIRE CO., LTD.
PICC/CTC	M/S SHENYANG HONGYUAN MAGNET WIRE CO. LTD, Approval valid up to 22.08.2020
PICC/CTC	ZTR, UKRAINE
PICC/CTC	KSH INTERNATIONAL, CHAKAN, Approval valid upto 24.01.2019.
PICC/CTC	CHANDRA PROTECO, SILVASSA (Approval valid till 11.10.2015)
PICC/CTC	M/S PRECISION WIRES INDIA LTD, SILVASSA. Approval valid upto 25.12.2018
PICC	ESSEX, GERMANY
PICC/ Enamled & Epoxy Bonded PICC	M/S Rational Engineers Limited, Thane (Approval valid upto 11.09.2020)
PICC/BPICC	ASTA INDIA, VADODARA Approval valid upto 03.02.2018
CTC	DE-ANGELI, PRODOTTI SRL, ITALY
PICC/BPICC	SHREE CABLES & CONDUCTOR PVT LTD., BHOPAL. Approval valid upto 06.04.2020.
CTC	ESSEX, GERMANY (Approval Valid upto 15.07.2013)
CTC	ASTA INDIA, VADODARA (Approval valid upto 21.04.2020)
KRAFT INSULATING PAPER	WEIDMAN, SWITZERLAND
KRAFT INSULATING PAPER	M/S SMURIFT MUNKSJO, SWEDAN
KRAFT INSULATING PAPER	M/S TERVAKOSKI OY, Finland, Approval valid up to 14.07.2018
CRGO	M/S NIPPON STEEL & SUMITOMO METAL CORP., Japan,
CRGO	AK STEEL, USA
CRGO	POSCO, KOREA,
CRGO	M/s Novolipetsk Steel (NLMK), Russia Approval valid up to 22.05.2018
CRGO STEEL	M/s VIZ STEEL, RUSSIA valid up to 30.11.2018
CRGO STEEL	M/S JFE Steel Corp. , JAPAN Approval valid up to 14.06.2020
INSULATING OIL	NYNAS, SWEDEN
INSULATING OIL	APAR, THANE APPROVAL VALID UPTO 15.08.2020
INSULATING OIL	M/S APAR LTD SILVASSA, Approval valid upto 03.10.2018
INSULATING OIL	SAVITA OIL TECHNOLOGIES LTD, NAVI MUMBAI-Approval valid upto 06.03.2019
INSULATING OIL	SAVITA OIL TECHNOLOGIES LTD,

	Silvassa- approval valid up to 06.12.2020
INSULATING OIL	M/S RAJ PETRO, SILVASA, Approval valid up to 02.10.2018
CONDENSOR BUSHINGS(765, 400,145, 72.5,52KV)-OIP	ABB AB, SWEDEN(ABB shall take supply order only with the condition mentioned below as per POWERGRID letter dtd. 11.02.2015 for 800KV class GOE 2550 OIP bushings)***
CONDENSOR BUSHINGS(765, 400,145, 72.5,52KV)-OIP	TRENCH, CHINA
CONDENSOR BUSHINGS (UPTO 800 kV)-OIP	CGL, NASIK (Approval valid up to 25.10.18)
CONDENSOR BUSHINGS (UPTO 400 kV)-OIP	AREVA T&D LTD., HOSUR (Hold on supply for 400 KV bushing)
CONDENSOR BUSHINGS (UPTO 400 kV)-OIP	M/s MASA LLC, Russia
CONDENSOR BUSHING (UPTO 245 kV)-(OIP)	M/S ABB LIMITED, VADODARA
CONDENSOR BUSHINGS (72.5 kV & 52 kV)-OIP	CGL, AURANGABAD
CONDENSOR BUSHINGS-OIP (72.5KV & 52KV )	NANJING ZHIDA ELECTRIC CO. LTD. CHINA
CONDENSOR BUSHINGS-OIP/RIP (up to 52KV ) High current bushing	M/s Yash High Voltage Insulator Pvt Ltd, Vadodara, approval valid up to 08.05.2018
RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s ABB AB , SWEDAN
RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s TRENCH, CHINA, approval valid up to 11.05.2018
RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s XIAN XD HIGH VOLTAGE BUSHING CO. LTD, China
RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s MASA LLC, Russia
RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s HSP, Germany
RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s ABB Switzerland Ltd., Micafil, Approval valid up to 21.10.2018
RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s NANJING Electric Co. Ltd, China
RIP-CONDENSOR BUSHINGS (UPTO 145KV)	M/s ALSTOM Grid S.P.A (PASSONI VILLLA), Italy (approval valid up to 10.05.2018)
RIP-CONDENSOR BUSHINGS (UPTO 145KV)	M/s Yash High Voltage Insulator Pvt Ltd, Vadodara, approval valid up to 08.05.2018
Wall Bushing (36KV and 52KV) for SVCs and STATCOM projects	M/s MGC MOSER_GLASER AG, Switzerland
Wall Bushing (36KV) for SVCs projects	M/s Electrotechnica Arteche Hermanos S. L, Spain
Wall Bushing (52kV Dry type ) for STATCOM projects	M/s XIAN XD HIGH VOLTAGE BUSHING CO. LTD, China
INSUALTION MATERIAL	ABB AB, SWEDEN
INSUALTION MATERIAL(including precompress board and Moulded Insulation Components)	TAIZHOU WEIDMANN HIGH VOLTAGE INSULATION CO.,LTD. Approval valid up to 28.05.2020
PRECOMPRESSED PRESS BOARD (alongwith Moulded Insulation Components)	M/S H WEIDMANN SWITZERLAND
LEAD EXIT	WEIDMAN, SWITZERLAND
PRECOMPRESSED PRESS BOARD (alongwith Moulded Insulation Components)	ENPAY , TURKEY
LEAD EXIT	ENPAY , TURKEY ,valid up to 25.12.2018
PRECOMPRESSED PRESS BOARD (alongwith Moulded Insulation Components)	M/S ABB FIGEHOLMS , SWEDEN

CORRUGATED BOARD	H. WEIDMAN AG SWITZERLAND
CUTTING AND SUPPLY OF INSULATING MATERIAL (SOURCED FROM SWITZERLAND) ALONGWITH MOULDED INSULATION COMPONENTS	M/S GOVIK ELECTRICALS LLTD, THANE. Approval valid up to 23.03.2020
MILLING AND CUTTING OF DENSIFIED LAMINATED WOOD	M/S ROCHLING ENGINEERING PLASTIC (I) PVT LTD, THANE (Approval upto 10.09.2020)
SUPPLY, CUTTING & SHAPING OF DENSIFIED LAMINATED WOOD	M/ S PERMALI WALLAC, Unit II Hoshangabad Road, Bhopal plant (Approval valid up to 07.06.2020)
MILLING AND CUTTING OF DENSIFIED LAMINATED WOOD(sourced from M/s Dehonite, Germany)	M/S Agya Enterprise, Bhopal, (Approval upto 02.03.2019)
CUTTING, SHAPING AND SUPPLY OF INSULATING MATERIAL (PRESS BOARD SOURCED FROM ABB-FIGEHOLM, SWEDEN AND DENSIFIED WOOD-FROM POWERGRID APPROVED SOURCE ONLY) ALONG WITH MOULDED INSULATION COMPONENTS	PUCARO FIGEHOLM INSULATION KIT CENTRE (PFIKC), HALOL, INDIA- Approval Valid upto 07.03.2019
CUTTING/SHAPING OF INSULATING MATERIAL (Press Board, Lamination Wood),	ENPAY TRANSFORMERS COMPONENTS INDIA PVT LTD, VADODARA, Approval valid up to 30.08.2018
ALONG WITH MOULDED INSULATION COMPONENTS	ENPAY TRANSFORMERS COMPONENTS INDIA PVT LTD, VADODARA ( <b>approval valid up to 23.10.2020</b> )
DENSIFIED LAMINATED WOOD	ROCHLING ENGINEERING PLASTICS, GERMANY
DENSIFIED LAMINATED WOOD	WEIDMAN, SWISS
DENSIFIED LAMINATED WOOD	INNER MANGOLIA ALIHE HUA YANG ELECTRICAL LAMINATION WOOD CO. LTD
DENSIFIED LAMINATED WOOD	DEUTSCHE-HOLZVERDELUNG(DEHONITE), GERMANY
DENISIFIED LAMINATED WOOD	M/S. ROCHLING ENGINEERING PLASTICS,GERMANY
OIL TEMPERATURE INDICATORS(REMOTE AND LOCAL)	QUALITROL AKM, SWEDEN
OIL TEMPERATURE INDICATORS(REMOTE AND LOCAL)	HONGZHAOU KEHONG INSTRUMENTS Co. Ltd., Approval valid up to 31.10.2015
OIL TEMPERATURE INDICATORS(REMOTE AND LOCAL)	DALIAN SHIYOU ELECTRIC POWER TECHNOLOGY CO., LTD,
OIL TEMPERATURE INDICATORS(REMOTE AND LOCAL)	MESSKO , GERMANY
OIL TEMPERATURE INDICATORS(REMOTE AND LOCAL)	PRECIMEASURE CONTROLS PVT LTD, BANGALORE (Approval valid up to 30.11.2018) OTI Model-1005A & RTD Model 2220-R1 & R2
WINDING TEMPERATURE INDICATORS	QUALITROL AKM, SWEDEN
WINDING TEMPERATURE INDICATORS	HONGZHAOU KEHONG INSTRUMENTS Co. Ltd., Approval valid up to 31.10.2015
WINDING TEMPERATURE INDICATORS	<b>DALIAN SHIYOU ELECTRIC POWER TECHNOLOGY CO., LTD,</b> Hold on supply

WINDING TEMPERATURE INDICATORS	PRECIMEASURE CONTROLS PVT LTD, BANGALORE (Approval valid upto 30.11.2018) WTI Model-1005A & RTD Model 2220-R1 & R2
WINDING TEMPERATURE INDICATORS	MESSKO , GERMANY
TEMPERATURE SENSOR(PT-100)	MESSKO , GERMANY
OLTC	ABB AB, SWEDEN
OLTC	MR, GERMANY
AIR CELL	PRONAL, PORTUGAL (approval valid up to 07.06.2020)
AIR CELL	FUJIKURA,JAPAN
AIR CELL	SHENYANG HONGDA GENERAL RUBBER FACTORY, Approval valid up to 31.10.2017
AIR CELL	BAODING XINKE RUBBER PRODUCT INSTITUTE, CHINA
AIR CELL	M/S UNIRUB TECHNO INDIA PVT LTD, PUNE, (Approval valid up to 22.05.2018)
AIR CELL	M/s ZENITH INDUSTRIAL RUBBER PRODUCTS PVT. LTD. THANE (Approval valid up to 31.05.2018)
BUCHOLZ RELAY	EMB CONTROL AB, SWEDEN
BUCHOLZ RELAY	M/S CEDESPE, ITALY
BUCHOLZ RELAY	SHENYANG YINHAI ELECTRICAL CO., LTD, Approval valid up to 31.10.2017
BUCHOLZ RELAY	ETI, ITALY
BUCHLOZ RELAY	M/S SUKRUT ELECTRIC CO. PVT. LTD., PUNE, approval valid up to 20.06.2018
BUCHLOZ RELAY	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
COOLING EQUIPMENT	BAODING TADA COOLING EQUIPMENT CO.,LTD. MAIN
Transformer OIL COOLER	M/s ALFA LAVAL SPA, ITALY approval valid up to 03.12.2016
COOLING FAN	M/S CALIFORNIA TURBO,USA
COOLING FAN	ZIEHL-ABEGG SVER
COOLING FAN	Maschinenfabrik Schormann GmbH, Germany
COOLING FAN	M/S MARATHON LTD KOLKATA (approval valid up to 12.02.2018)
FAN	ZHEJIANG MINGXIN FAN CO., LTD.
OIL PUMP	GEA
OIL PUMP	BEIJING FUTE DISC MOTOR FAN LTD.
OIL PUMP	ABB, SWEDEN
OIL PUMP	M/s FLOW OIL PUMPS PVT LTD (Flowwell), BANGALORE (Approval valid upto 30.11.2018)
PRESSURE RELIEF DEVICE	QUALITROL CORPORATION, USA
PRESSURE RELIEF DEVICE	MESSKO, GERMANY
PRESSURE RELIEF DEVICE/ SUDDEN PRESSURE RELAY	SHENYANG KEQI ELECTRICAL EQUIPMENT CO., LTD.
PRESSURE RELIEF DEVICE	M/s SUKRUT UDYOG, Pune approval valid up to 02.05.2020.

PRESSURE RELIEF DEVICE	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
RAPID PRESSURE RISE RELAY (SPR/RPRR) ( Model 900-003-02 CS 46518 horizontal mounted and 900-003-32 CS 46369 vertical mounted)	M/s Qualitrol Company LLC, USA, Approval valid up to 03.10.2017
RAPID PRESSURE RISE RELAY (SPR/RPRR)	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
MOLG	COMEM, ITALY
MOLG	TAIJIN INDUSTRIES,SOUTH KOREA
MOLG	SHENYANG YINHAI ELECTRICAL CO., LTD, Approval valid up to 31.10.2017.
MOLG	MESSKO , GERMANY
MOLG	QUALITROL, USA
MOLG	M/s SUKRUT UDYOG, Pune approval valid up to 02.05.2020
OIL FLOW INDICATOR	TAIJIN INDUSTRIES,SOUTH KOREA
OIL FLOW INDICATOR	M/s SUKRUT UDYOG, Pune approval valid up to 02.05.2020
OIL FLOW INDICATOR	M/s Shenyang Yinhai electrical co. ltd, China.Approval valid upto 31.08.16
OIL FLOW INDICATOR	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
ON LINE DISSOLVED HYDROGEN & MOISTURE MONITOR	M/S MORGAN SHAFFER – CANADA ( Model – CALISTO) ###
ON LINE DISSOLVED HYDROGEN & MOISTURE MONITOR	M/S KELMAN, UK ( Model – MINITRANS) ###
ON LINE DGA MULTIGAS & MOISTURE MONITORING SYSTEM (MODEL-9 Gas Transfix)	M/s G E ,UK (KELMAN) approval valid up to 03.10.2017 ###
ON LINE DISSOLVED HYDROGEN & MOISTURE MONITORING SYSTEM (Model-TM1)	M/s. SERVERON CORPORATION, USA. Approval valid up to 31.08.2016. ###
ON LINE DGA MULTIGAS & MOISTURE MONITORING SYSTEM (Model TM-8)	M/s. SERVERON CORPORATION, USA. Approval valid up to 06.01.2018 ###
ON LINE DGA MULTIGAS & MOISTURE MONITORING SYSTEM (Model HYDROCAL-1008)	M/S A-EBERLE, GERMANY (Approval valid up to 06.08.2017) ###( Make- EMH ENERGIE-MESSTECHNIK GmbH, Marketed by M/S A-EBERLE, GERMANY)
ON LINE DISSOLVED HYDROGEN & MOISTURE MONITOR (MODEL NO HYDROCAL-1003)	M/S A-EBERLE, GERMANY (Approval valid up to 27.01.2016) ###( Make- EMH ENERGIE-MESSTECHNIK GmbH, Marketed by M/S A-EBERLE, GERMANY)
ON LINE DGA (Model MGA 2000 series)	M/s Ningbo Ligong Online monitoring Technology Co, Ltd. China Valid up to 23.03.2018. ###
ON-LINE OIL DRYING SYSTEM	M/S TRANSEC LTD – UK (MODEL – CL3AM), ###
ON-LINE OIL DRYING SYSTEM	PTSS-VELCON SYSTEMS – COIMBATORE, INDIA (MODEL- TDS1GA4X- with 4 superdri cartridges and PTss-TDS1GA6X & PTss- TDS1GA6XS (6 superdri cartridges) with IEC 61850), Approval valid up to 23.10.20 ###
ON LINE INSULATING OIL DRYING SYSTEM	M/s CEE DEE Vacuum, Pune (Model-TRANS DRY CD 002) Approval valid up to 06.06.2020###
SILICA GEL BREATHER	COMEM, ITALY
SILICA GEL BREATHER	TAIJIN INDUSTRIES,SOUTH KOREA

SILICA GEL BREATHER	SHENYANG MING YUAN ELECTRIC EQUIPMENT CO., LTD, Approval valid up to 31.10.2015
SILICA GEL BREATHER	SHENYANG XINGONG TRANSFORMER COMPONENT FACTORY
SILICA GEL BREATHER	YOGYA ENTERPRISES, JHANSI
SILICA GEL BREATHER	ZTR, UKRAINE
SRBC	M/S BHARAT CORRUB INDUST.
NITRILE RUBBER GASKETS/O-RINGS	BANDO CHEMICALS CO. LTD., SOUTH KOREA
NITRILE RUBBER GASKETS/O-RINGS	BOMBAY OIL SEAL, MUMBAI
NITRILE RUBBER GASKETS/O-RINGS	MA-GUMI KFT, KIRALY
NITRILE RUBBER GASKETS/O-RINGS	NU CORK PRODUCTS PVT LTD, BHIWADI Approval valid upto 03.03.2018.
GASKETS FOR REACTOR(EXCLUDING MARSHALLING BOX)	SHENYANG HUAYAN RUBBER & PLASTIC PRODUCTS FACTORY, Approval valid up to 31.10.2015
GASKET FOR MARSHALLING BOX	EMKA BESCHLAGTEILE, GMBH, Approval valid up to 31.10.2015
GASKET	BAODING TIANWEI JINSAN RUBBER INDUSTRY CO.,LTD.
GASKET /O-RINGS	ZTR, UKRAINE
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	M/S RITTAL – BANGALORE
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	HYOSUNG
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	TBEA SHENYANG TRANSFORMER GROUP CO.,LTD., Approval valid up to 31.10.2015
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	BAODING TIANWEI ZHUOCHUANG ELECTRIC EQUIPMENT TECHNOLOGIES CO., LTD.
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	M/S UNITED INDUSTRIES COMPONENTS CO. PVT. LTD. NAVI MUMBAI (valid up to 21.03.2018)
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	KOD-KFT, HUNGARY
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	VECO-VILL, HUNGARY
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	ZTR, UKRAINE
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	M/S ASHOKA ELECTRONIC BHOPAL, Approval valid upto 10.3.18
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	M/s. PYROTECH ELECTRONICS PVT LTD., UDAIPUR. Approval (valid up to 02.05.2020)
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	M/s. MAKTEL, VADODARA., Approval valid upto 20.02.17
MARSHALLING BOX/CONTROL CABINET/RTCC/COOLER CUBICLE	M/s GEMTECH Cables and Terminals Pvt. Ltd, Vadodara (Approval valid up to 08.12.2018)
ROLLER ASSEMBLY (AXLE & WHEEL)	M/S CHAMPION ENGINEERING INDUSTRIES,
ROLLER ASSEMBLY (AXLE & WHEEL)	SEOJIN M.C.H,SOUTH KOREA

ROLLER ASSEMBLY	BAODING TIANWEI ELECTRIC EQUIPMENT STRUCTURE CO., LTD.
ROLLER ASSEMBLY	SCHORMANN, GMBH
ROLLER ASSEMBLY	M/S SIGMA HEAVY ENGINEERING INDUSTRIES BHOPAL, Approval valid upto 19.07.2018
GATE/GLOBE/NONRETURNVALVE/CAST IRON	M/s LEADER VALVES LTD, JALANDHAR
GATE VALVE	M/s GG VALVE, UDAIPUR
GATE VALVE	M/s XIANJIANG TBEA Group Co. Ltd. , Henyang Electrical Company , China (valid up to 31.08.2016)
STEEL	ANGANG STEEL CO LTD
STEEL	TISCO
STEEL	SAIL
STEEL	METINVEST, DONESTSK,UKRAINE
STEEL	ESSAR
STEEL	JINDAL (KARNATKA PLANT 3-10MM PLATE THICKNESS AND THANE PLANT ABOVE 8MM PLATE THICKNESS
STEEL	JINDAL STEEL AND POWER LIMITED, RAIGARH PLANT
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	M/S.MECHMEN
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	M/S. SATYAM INDUSTRIES Approval Valid upto 31.07.18.
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	M/S MECH & FAB INDUSTRIES
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	BAODING TIANWEI ELECTRIC EQUIPMENT STRUCTURE CO., LTD.
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	CGL ELECTRIC SYSTEM (SZOLONOK UNIT)
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	ZTR, UKRAINE
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	E.M. ELECTRO MECHANICAL (UNIT-II), BHOPAL, approval valid up to 23.03.2018
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	E.M. ELECTRO MECHANICAL (UNIT-III), VADODARA. Approval Valid up to 02.02.2019
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	M/S SIGMA HEAVY Engg INDUSTRY BHOPAL, Unit I, Approval valid up to 31.03.2018 M/S SIGMA HEAVY Engg INDUSTRY BHOPAL, unit III , Approval valid up to 02.02.2018
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	M/s QUICK HI-TECH ENGG INDIA PVT. LTD, Approval valid upto 08.10.2020
STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	M/S ELECTRO AUTO, BHOPAL, , Approval valid up to 12.01.19

STEEL FABRICATED PARTS (TANK,TANK COVER, CONSERVATOR,TURRET, ACCESSORIES & PIPEWORK)	M/s Toshiba transmission & distribution system India pvt. Ltd, Rudraram (approval valid up to 09.02.2018)
POST INSULATOR/HOLLOW PORCELAIN/PORCELAIN BUSHING	M/S PPC INSULATORS, SWEDEN
PORCELAIN BUSHING(52KV)	CEDASPE,
BUSHING CURRENT TRANSFORMER	M/S MAHENDRA ELECTRICALS, MUMBAI
BUSHING CURRENT TRANSFORMER	M/S PRAGATI ELECTRICALS PVT. LTD.,Thane
BUSHING CURRENT TRANSFORMER	M/S SAMNUNG CO. LTD., SOUTH KOREA
BUSHING CURRENT TRANSFORMER	TBEA KONČAR (SHENYANG) INSTRUMENT TRANSFORMER CO., LTD., Approval valid up to 31.10.2015
BUSHING CURRENT TRANSFORMER	BAODING TIANWEI BAOBIAN ELECTRIC CO., LTD
BUSHING CURRENT TRANSFORMER	ENPAY, TURKEY
BUSHING CURRENT TRANSFORMER	EPRO, GERMANY
BUSHING CURRENT TRANSFORMER	M/S. AGARWAL INDUSTRIES, BHOPAL. Approval valid upto 21.02.2019
BUSHING CTs & WOUND CORE (ONLY CRGO FOR PS CORES FOR CTs)	ENPAY TRANSFORMERS COMPONENTS INDIA PVT LTD, VADODARA, Approval valid upto 30.08.2018
BUSHING CTs & Secondary WOUND CORE	M/S SINE WAVE (REWA) ELECTRONICS PVT. LTD. , REWA Approval valid upto 17.12.2020
RING/TOROIDAL CORES FOR CTs	M/s SHIVALAYA ENGINEERING WORKS, MANDIDEEP valid up to 15.02.2018
RADIATORS	M/S.TTP TECHNOLOGIES PVT LTD
RADIATORS	M/S WON KANG IND. CO. LTD., SOUTH KOREA
RADIATORS	BAODING TADA COOLING EQUIPMENT CO., LTD., Approval valid up to 31.10.2015
RADIATORS	MENK, GERMANY
RADIATORS	M/S TARANG ENGINEERING PVT LTD, NAGPUR (Approval Valid up to 15.05.2018)
RADIATORS	SHENYANG LARGE ELECTRICAL TRANSFORMER MAINTAINANCE CO. LTD., Shenyang, China (Approval valid up to 31.10.2013)
RADIATORS	Hi-TECH Radiators Pvt Ltd., Khopali, Mumbai. Approval Valid up to 25.12.2018
RADIATORS	M/s Toshiba transmission & distribution system India pvt. Ltd, Rudraram (approval valid up to 09.02.2018)
RADIATORS	M/S TRIVENI ELECTROPLAST PVT LTD., ALLAHABAD. Approval valid up to 25.12.2018
BUTTERFLY VALVES (RADIATOR VALVES)	M/S PETSON VALVES,
BUTTERFLY VALVES (RADIATOR VALVES)	MAIER, GERMANY
BUTTERFLY VALVES	TAIJIN INDUSTRIES,SOUTH KOREA
BUTTERFLY VALVES	BAODING TAIHANG MANUFACTURING VALVE CO.,LTD, Co. Ltd., Approval valid up to 31.10.2015
BUTTERFLY VALVES	ETI, ITALY



BUTTERFLY VALVES	M/s XIANJIANG TBEA Group Co. Ltd. , Henyang Electrical Company, China (valid up to 31.08.2016)
RADIATOR VALVES	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
VALVES(GATE, GLOBE, TAPER, NR VALVE, VALVES	MVV-ISG, HUNGARY HEROES, GMBH GERMANY
BUTTERFLY VALVE, BALL VALVES	BAODING TAIHANG VALVES CO., LTD. / CHINA
SHUT OFF AND BALL VALVES	SHENYANG CHENGXING POWER EQUIPMENT MANUFACTURE CO.,LTD, Approval valid up to 31.10.2015
FLOW SENSITIVE CONSERVATOR VALVE	ETI, ITALY(DAROC SERIES)
FLOW SENSITIVE VALVE	M/s Shenyang Power Transformer Accessory Factory, China (approval valid up to 31.08.2016)
FIRE CONTROL VALVE	SERGI FRANCE
CABLES	POWERGRID APPROVED SOURCES
CRGO SLITTING & CUTTING	ZTR, UKRAINE
CRGO LAMINATION/CUTTING	M/s KRYFS POWER COMPONENTS LTD, SILVASSA, Approval valid up to 04.12.2020
CRGO LAMINATION/CUTTING	M/s JFE Shoji Steel India Pvt. Ltd, Pune Valid up to 17.04.2018
CRGO LAMINATION/CUTTING	M/s NLMK India Service Centre Pvt. Ltd., Daman (Approval valid up to 22.06.2018)
CRGO SLITTING & CUTTING	M/S MAHINDRA Intertrade Ltd. (SAVLI- VADODARA). Approval valid upto 28.05.2020 M/S MAHINDRA STEEL SERVICE CENTRE (PUNE)-Approval Valid up to 06.12.2018. M/S MAHINDRA STEEL SERVICE CENTRE (MANDIDEEP)-Approval Valid up to 30.11.2018.
CRGO SLITTING & CUTTING	LEGANO TEKNOELECTRIC CO SPA, ITALY (Approval Valid upto 15.07.2013)
CUTTING LAMINATIONS OF CRGO AND SLIT COILS	M/s POSCO-TMC INDIA PVT LTD., PUNE. Approval Valid upto 06.12.2018
SLITTING OF CRGO COILS	M/s POSCO-INDIA Pune Processing Centre (IPPC) Pvt Ltd, PUNE. Approval Valid upto 06.12.2018
CRGO CUTTING AND SLITTING	M/S POSCO POGGENAMP ELECTRIC STEEL PVT LTD., KHEDA, GUJARAT (Approval valid upto 14.07.2018)
CRGO CUTTING /LAMINATION	M/S VARDHMAN STAMPING, Mehsana. Approval valid up to 08.06.2018
CRGO LAMINATION/CUTTING	M/S PRADEEP TRANSCORE PVT LTD, Nani, Allahabad. Approval valid up to 30.08.2018
NITRILE RUBBER GASKET/'O' RING	BOMBAY OIL SEAL MFG. CO.,
OPTICAL SENSOR	NOEPTIX INO CANADA,
OPTICAL SENSOR	OPSENS INO CANADA
OPTICAL SENSOR	LUMASENSE CANADA,
OPTICAL SENSOR	FISO TECHNOLOGY INC., Canada Approval valid up to 14.09.2017
POLYESTER RESIN GLASS TAPE	SWECO, SOUTH KOREA

POLYESTER RESIN GLASS TAPE	INDUSTRIAL TAPES & FABRICS PVT LTD, JAMSHEDPUR
RESIN GLASS TAPE	ISO VOLTA-AG, AUSTRIA
RESIN COATED GLASS TAPE	ZTR, UKRAINE
POLY GLASS/ RESIN GLASS FIBRE BANDING TAPES	NASHIK INSULATION PVT LTD, NASHIK. Approval valid 31.12.2020
OIL STORAGE TANK	BAODING TIANWEI ELECTRIC EQUIPMENT STRUCTURE CO., LTD.
OIL STORAGE TANK	BAODING TIANWEI BAOBIAN ELECTRIC COMPANY LTD
OIL STORAGE TANK	TBEA SHENYANG TRANSFORMER GROUP Co. Ltd., Approval valid up to 31.10.2015
OIL STORAGE TANK (Upto 60 KI)	VACUUM PLANT AND INDUSTRIES, PUNE (valid up to 17.03.2017)
OIL STORAGE TANK (Upto 80 KI)	CEE DEE, PUNE valid up to 22.06.2018
OIL STORAGE TANK (Upto 80 KI)	SAI CORP INDUSTRIAL TRAILERS, BANGALORE, Approval valid up to 16.08.2020
OIL STORAGE TANK (Upto 20 KI)	M/s Toshiba transmission & distribution system India pvt. Ltd, Rudraram (approval valid up to 09.02.2018)
OIL FILTERATION M/C	M/s VACCUM PLANT & IND.-PUNE
OIL FILTERATION M/C	M/s FOWLER WESTRUP (India) PVT. LTD, Malur, Kolar
OIL FILTERATION M/C	M/s CEE DEE VACUUM EQUIPMENT PVT.LTD., Pune
TERMIANAL CONNECTOR	HYOSUNG
TERMIANAL CONNECTOR	NOOTAN ENGGINEERING VADODARA
GAS COLLECTING DEVICE	ETI, ITALY
GAS COLLECTING DEVICE	M/S SUKRUT ELECTRIC CO. PVT. LTD., PUNE, approval valid up to 01.05.2020
OIL SAMPLING BOTTLE	SCIENO TECH INDUSTRIES, DELHI
STEEL FOR TRANSFORMER TANK	TIBNOR AB, SWEDEN
PIPES FOR TANK/RADIATORS	JINDAL
PIPES FOR TANK/RADIATORS	SURYA ROSHNI
PIPES FOR TANK/RADIATORS	AJANTA
PIPES FOR TANK/RADIATORS (SEAMLESS)	M/S. MAHARASTRA SEAMLESS LIMITED
PIPES FOR TANK/RADIATORS (SS 304 grade seamless pipe)	M/s SUMITOMO METAL INDUSTRIES LTD, JAPAN, APPROVAL VALID UP TO 17.04.2018
CORE CHEESE SEGMENT FOR SHUNT REACTOR	M/S ABB CHONGQING TRANSFORMER LTD, CHINA (Approval Valid upto 30.04.2015)
CORE PACKETS FOR SHUNT REACTORS	ENPAY TRANSFORMERS COMPONENTS INDIA PVT LTD, VADODARA, Approval valid upto 30.08.2018
RESIN CAST CORE PACKETS (Magnetic Disc Assembly) for Reactors only	M/s. PRADEEP TRANSORE PVT LTD., Naini, Allahabad approval valid up to 09.08.2020
DRY TYPE 145 KV NGR	TBEA XINJIANG TRANSFORMER CO. LTD., CHINA. Approval valid upto 31.07.2013.

DRY TYPE 145 KV NGR	TBEA SHENYANG TRANSFORMER GROUP CO. LTD., CHINA. Approval valid upto 31.08.2013.
DRY TYPE 145 KV NGR	BEJING POWER EQUIPMENT GROUP, BEJING, CHINA (Approval valid upto 14.11.2020)
AIR CORE REACTOR (UP TO 145KV CLASS)	TRENCH, Austria/Canada
AIR CORE REACTOR (145 KV Class)	M/s Quality Power, Sangli (Approval valid up to 11.05.2020)
Syringes	M/s Universal Industrail Coparation, Rourkela.
Syringes	M/s APEX Chromatography Pvt. Ltd., Secunderabad
Syringes	M/s Scientific Products (India) Pvt. Ltd., Mumbai
Syringes	M/s DOBLE Engineering Private Ltd., Vadodara,
Syringes	M/s AKSHAYA Scientifics, Hyderabad
Syringes	M/s KELMAN Distributors India Pvt. Ltd, Bangalore
Syringes	M/s AVACO Engineering (INDIA) Pvt. Ltd. Mumbai
Syringes	M/s Sewa medical Ltd., Mumbai
CRCA FOR RADIATOR	M/S JFE STEEL CORPORATION, JAPAN Approval valid upto 15.07.2013
Radiator Steel Sheet	M/s. SAIL
Radiator Steel Sheet	M/s. TISCO, Jamshedpur
Radiator Steel Sheet	M/s. Bhusan Steel, Gaziabad
Radiator Steel Sheet	Bhushan Power & Steel Ltd, Sambalpur, Orissa
THREADED FASTNERS (HARDWARE)	APPROVED SUB VENDORS AS PER COV OF POWERGRID WEBSITE
Copper stranded wire (bare and paper covered)	M/s Rational Engineers Ltd., Palghar, approval valid up to 29.11.2017
Paper Insulated copper Lead	M/s GIC Insuflex Conductors Pvt. Ltd. Approval valid up to 15.03.2018
Ceramic Spacers for Cheese Core Assembly	M/s M K Ceramics, Vadodara (Approval Valid up to 30.11.2018)

Note: Any sub vendor already approved by POWERGRID and not appearing in this list can be informed to Corporate, QA&I Department with relevant documents/evidence as a proof of POWERGRID approval. On review of these documents and if, necessary after audit/ re-assessment, their name may be considered for inclusion in this list.

\*\*\* Condition for supply (ABB, Sweden make 800KV class GOE 2550 OIP bushings)

1. ABB shall carry out DGA analysis for all the 800KV GOE 2550 bushings immediately after 03 months of commissioning of all the bushings to be supplied from now for all their future supplies including existing orders in hand.

2. In case of any violation in above DGA results are observed, the respective bushings shall be replaced immediately by ABB irrespective of whether it is supplied by ABB for their own projects or through any OEM.

**###Condition for supply of On Line DGA (Multigas/Hydrogen) & Moisture monitoring system and Online insulating oil drying system.**

Approval shall be valid subject to the condition that the above mentioned item (###) shall be commissioned at site directly by Equipment manufacturer's representative only