

Component Manufacturers List of Power Transformer & Reactor upto 420 kV Class.

SL.NO	ITEM	VENDOR NAME
1.a	PICC/BPICC	M / S SHREE CABLES & CONDUCTORS BHOPAL, Approval Valid upto 06.04.2020
	PICC	M/ S CHANDRA METALS PVT LTD ALLAHABAD, Hold on supply
	PICC/CTC	M/S KSH INTERNATIONAL CHAKAN, Approval valid upto 24.01.2019
	PICC	M/S KSH INTERNATIONAL TALOJA
	PICC	M/S BCPL, MANDIDEEP
	PICC	M/S BHANDARY POWER LINE, MANIPAL
	PICC/CTC	M/S PRECISION WIRES INDIA LTD, SILVASSA. , Approval Valid up to 25.12.2018
	PICC	M/S SHAKTI INSULATED WIRES PVT LTD, ANKLESHWAR (Approval Valid up to 03.10.2018)
	PICC	M/S MP ELECTRICALS, BHOPAL
	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)
	PICC	M/s SIGNET Conductors Pvt. Ltd., Rewa. approval valid up to 08.01.2019
1.b	GLUED PICC	M/S SMIT DRAD, NETHERLAND
	GLUED PICC	M/S ASTA EISEN, AUSTRIA
	GLUED PICC	M/S SHREE CABLE & CONDUCTORS , BHOPAL
	GLUED PICC	M/S KSH INTERNATIONAL, CHAKAN, Approval valid up to 16.02.2018
1.c	CTC/PICC	M / S CHANDRA PROTECO SILVASA, Approval valid upto 11.10.15.
	CTC/PICC	M/s Toshiba transmission and distribution system (India) Pvt. Ltd, Rudraram , Approval validity up to 29.10.2020
	PICC/CTC	M/S SHENYANG HONGYUAN MAGNET WIRE CO. LTD, Approval valid up to 22.08.2020
	CTC	M / S SAMDONG KOREA
	CTC	M/S SMITH DRAD ,NETHERLAND
	CTC	M/S ASTA EISEN, AUSTRIA
	CTC	M/S ESSEX, ITALY
	CTC	M/S ASTA, VADODARA (Approval Valid up to 21.04.2020)
	CTC	M/ S SHREE CABLES & CONDUCTORS BHOPAL, Approval Valid up to 30.05.2018
	CTC	M/s Rational Engineers Ltd, Palghar (Approval valid up to 20.08.2018)
2	KRAFT INSULATING PAPER	M/S SMURIFT MUNKSJO, SWEDAN
	KRAFT INSULATING PAPER	M/ S KAMMERER GERMANY (AHLSTROMOSNBRUCK)
	KRAFT INSULATING PAPER	M/S TERVAKOSKI OY, Finland, Approval valid up to 14.07.2018
	KRAFT INSULATING PAPER	M/S AMOTFORS BRVK AB SWEDEN

	KRAFT INSULATING PAPER	M/S ELOF HANSEDN, SWEDEN
	KRAFT INSULATING PAPER	M/S WIEDMAN ELECTRICAL, SWITZERLAND
3	CRGO STEEL	M/S NIPPON STEEL & SUMITOMO METAL CORP, Japan
	CRGO STEEL	M/S KAWASAKI CORPORATION/JFE , JAPAN, Approval valid up to 19.06.2017
	CRGO STEEL	M/S A.K.STEEL USA
	CRGO STEEL	M/S POSCO KOREA,
	CRGO STEEL	M/S AST ITALY
	CRGO STEEL	M/S TKES GERMANY
	CRGO STEEL	M/S UGINE DIVISION DUSINOR SACLAR, S.A.,FRANCE
	CRGO STEEL	M/S ORB ELECTRICALS STEELS, UK
	CRGO STEEL	M/S PREUSSAG HANDEL, GERMANY
	CRGO STEEL	M/S ACESITA, BRAZIL
	CRGO STEEL	M/s VIZ STEEL, RUSSIA valid up to 30.11.2018
	CRGO STEEL	M/s Novolipetsk Steel (NLMK), Russia Approval valid up to 22.05.2018
	CRGO STEEL	M/S JFE Steel Corp. , JAPAN Approval valid up to 14.06.2020
	CRGO STEEL WITH FINAL PROCESS OF COATING & ANNEALING OF SEMIPROCESSED CRGO MOTHER COIL (SOURCED FROM TKES, GERMANY)	M/S TKES INDIA PVT. LTD, NASIK , (approval valid up to 20.08.2016) and subject to condition \$\$\$
4	PRECOMPRESSED PRESS BOARD (along with Moulded Insulation Components)	M/S H WEIDMANN SWITZERLAND
	LEAD EXIT	WEIDMAN, SWITZERLAND
	PRECOMPRESSED PRESS BOARD (along with Moulded Insulation Components)	M/S RAMAN BOARD MYSORE (Approval valid up to 01.11.2020)
	PRECOMPRESSED PRESS BOARD	M/S SENAPATHY WHITELEY – BANGALORE approval valid up to 24.07.2020
	PRECOMPRESSED PRESS BOARD (along with Moulded Insulation Components)	M/S ABB FIGEHOLMS BRUK, SWEDEN
	PRECOMPRESSED PRESS BOARD (along with Moulded Insulation Components)	M/S ENPAY, TURKEY
	LEAD EXIT	ENPAY , TURKEY ,valid up to 25.12.2018
	PRECOMPRESSED PRESS BOARD	M/s KREMPEL GmBH, Germany (valid up to 30.04.2017)
	PRECOMPRESSED PRESS BOARD	M/s OJI F-TEX CO LTD. Japan (valid up to 28.05.2018)
	pressboards & Insulating Components (excluding lead exit)	M/S CHANGZHOU YINGZHONG ELECTRICAL CO. LTD.,CHINA valid up to 17.02.2016
	INSUALTION MATERIAL(including precompress board and Moulded Insulation Components)	TAIZHOU WEIDMANN HIGH VOLTAGE INSULATION CO.,LTD. Approval valid up to 28.05.2020
	INSUALTION MATERIAL(including precompress board and Moulded Insulation Components)	M/s Pucaro Elektro-Isolierstoffe GmbH, Germany (Approval valid up to 31.12.2018)
	Pre compressed pressboard, Moulded and Machined Component	M/s Taizhou Xinyuan Electrical equipment Co. Ltd, China (Approval valid up to 20.08.2018)
5	DENSIFIED LAMINATED WOOD	M/S DEHONITE
	DENSIFIED LAMINATED WOOD	M/S ROCHLING ENGINEERING PLASTICS, GERMANY
	SUPPLY, CUTTING & SHAPING OF DENSIFIED LAMINATED WOOD	M/ S PERMALI WALLAC, Unit II Hoshangabad Road, Bhopal plant (Approval valid up to 07.06.2020)

	SUPPLY, CUTTING & SHAPING of UDEL wood	M/s Surendra Composite Pvt. Ltd, Mandideep, approval valid up to 08.05.2018
	DENSIFIED LAMINATED WOOD	M/S WESTERN INDIA PLYWOOD KERALA
	DENSIFIED LAMINATED WOOD	M/s Rancan, Italy (Approval valid up to 09.05.2017)
6	POLYSTER IMPREGNATED WEFTLESS GLASS TAPE	M/S INDUSTRIAL TAPES AND FABRIC JAMSHEDPUR
	POLYSTER IMPREGNATED WEFTLESS GLASS TAPE	M/S ROTOMAC ELECTRICALS, GHAZIABAD
	POLY GLASS/ RESIN GLASS FIBRE BANDING TAPES	M/S NASHIK INSULATION PVT LTD, NASHIK. Approval valid 31.12.2020
7	SRBC	M/S TALBROS LTD FARIDABAD
	SRBC	M/S NUCORK GURGAON
	SRBC	M/S INDIAN CORK INDUSTRY BAHADURGARH
	SRBC	M/S CORTICA MANUFACTURING PVT. LTD. CHENNAI
	SRBC	M/S BHARAT CORUB INDUSTRIES, VADODARA
	SRBC	M/S PACKING & JOINTING, CHENNAI
8	NITRILE RUBBER CORD & O RING	M/S BOMBAY OIL SEAL MFG CO MUMBAI
	NITRILE RUBBER CORD & O RING	M/S NU CORK PRODUCTS PVT LTD, BHIWADI. Approval valid up to 03.03.2018.
	NITRILE RUBBER CORD & O RING	M/S INDIAN RUBBER PRODUCTS, HARIDWAR
	NITRILE RUBBER CORD & O RING	M/S TAL BROS LTD., FARIDABAD
	O Ring (Nitrile Rubber and Neoprene)	M/s Scorpien industrial Polymers Pvt. Ltd, Chennai (Approval valid up to 19.09.2018)
9-A	CONDENSOR BUSHINGS (UPTO 400 kV)-OIP	AREVA T&D LTD., HOSUR (Hold on supply for 400 KV bushing)
	CONDENSOR BUSHINGS (UPTO 800 kV)-OIP	M/ S CGL NASIK (Approval valid up to 25.10.18)
	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 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/RIP (up to 52KV) High current bushing	M/s Yash High Voltage Insulator Pvt Ltd, Vadodara, approval valid up to 08.05.2018
9-B	RIP-CONDENSOR BUSHINGS (UPTO 400 kV)	M/s ABB AB , SWEDEN
	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 VILLIA), 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
9-C	Wall Bushing (36KV and 52KV) for SVCs and NP KUNTA 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)	M/s XIAN XD HIGH VOLTAGE BUSHING CO. LTD, China
10	PORCELAIN INSULATOR	M/ S WS INDUSTRIES CHENNAI
	PORCELAIN INSULATOR	M/S CJI PORCELAIN PVT LTDKHURJA
	PORCELAIN INSULATOR	M/S BHEL, BANGALORE
	PORCELAIN INSULATOR	M/S LUSTER CERAMICS PVT. LTD. VADODARA
	PORCELAIN INSULATOR	M/S JAYSHREE INSULATOR, HALOL (INSULATOR ONLY)
11	PORCELAIN INSULATOR	M/S GENESIS ENTERPRISES, KHURJA
	CURRENT TRANSFORMER (BUSHING)	M/S AUTOMATIC ELECTRIC THANE
	CURRENT TRANSFORMER (BUSHING)	M/S MAHINDRA ELECTRICALS Thane
	CURRENT TRANSFORMER (BUSHING)	M/S PRAGATI ELECTRICALS PVT. LTD., Thane
	CURRENT TRANSFORMER (BUSHING)	M/S KAPPA ELECTRICALS, CHENNI
	CURRENT TRANSFORMER (BUSHING)	M/S PROTECTION & CONTROL ENGINEERS, MUMBAI
	CURRENT TRANSFORMER (BUSHING)	M/S BHEL, BHOPAL
	CURRENT TRANSFORMER (BUSHING)	M/S NARYAN POWERTECH, VADODARA
	CURRENT TRANSFORMER (BUSHING)	M/s A U ELECTRIC MACHINE, Allahabad
	TURRET MOUNTED CTS (RING TYPE)	M/s. AGARWAL INDUSTRIES, BHOPAL, Approval valid up to 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
	Bushing CT (Ring Type)	M/s CGL, Aurangabad, Valid up to 17.04.2018
	Bushing CT	M/s T & R INDIA LTD (SWITCHGEAR DIV.) Approval valid up to 23.03.2018
	RING/TOROIDAL CORES FOR CTs	M/s SHIVALAYA ENGINEERING WORKS, MANDIDEEP valid up to 15.02.2018
12	BUCHLOZ RELAY	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
	BUCHLOZ RELAY	M/S INSTRUMENTS & CONTROL VADODARA
	BUCHLOZ RELAY	M/S A.J.SERVICES (PRAYOG) BOMBAY
	BUCHLOZ RELAY	M/S WEIR ELECTRIC, UK
	BUCHLOZ RELAY	M/S VEB, GERMANY
	BUCHLOZ RELAY	M/S ASPE, ITALY
	BUCHLOZ RELAY	M/S SUKRUT ELECTRIC CO. PVT. LTD., PUNE, approval valid up to 20.06.2018
	BUCHOLZ RELAY	SHENYANG YINHAI ELECTRICAL CO., LTD, Approval valid up to 31.10.2017
13	TERMINAL CONNECTOR	M/S MILIND ENGG MUMBAI
	TERMINAL CONNECTOR	M/S NOOTAN ENGG BARODA
	TERMINAL CONNECTOR	M/S PEEVEE ENGG. BANGALORE
	TERMINAL CONNECTOR	M/S KLEMMEN ENGG. CORP. , CHENNAI
	TERMINAL CONNECTOR	M/S VINAYAK TRANSMISSION PRODUCTS PVT. LTD., MUMBAI

14	MARSHALLING BOX / CONTROL CABINET/RTCC	M/S ASHOKA ELECTRONIC BHOPAL, Approval valid upto 10.3.18
	MARSHALLING BOX / CONTROL CABINET/RTCC	M/S UNITED INDUSTRIES COMPONENTS CO. PVT. LTD. NAVI MUMBAI (valid up to 21.03.2018)
	MARSHALLING BOX / CONTROL CABINET/RTCC	M/S PYROTECH, UDAIPUR(valid up to 02.05.2020)
	MARSHALLING BOX / CONTROL CABINET/RTCC	M/S ENTERPRISING ENGG BHOPAL
	MARSHALLING BOX / CONTROL CABINET/RTCC	M/S SARVANA SWITCHGEAR, BANGALORE
	MARSHALLING BOX / CONTROL CABINET/RTCC	M/s. MAKTEL, VADODARA,. Approval valid upto 20.02.17
	MARSHALLING BOX / CONTROL CABINET/RTCC	M/s TOSHIBA TRANSMISSION AND DISTRIBUTION INDIA PVT. LTD, RUDRARAM, Approval valid up to 08.07.2016
	MARSHALLING BOX / CONTROL CABINET/RTCC	M/s GEMTECH Cables and Terminals Pvt. Ltd, Vadodara (Approval valid up to 08.12.2018)
15	RTCC	M/S BHEL, BHOPAL
16	AIR CELL	M/S THE RUBBER PRODUCTS MUMBAI
	AIR CELL	M/S UNIRUB TECHNO INDIA PVT LTD, PUNE, (Approval valid up to 22.05.2018)
	AIR CELL	M/S PRONAL, PORTUGAL (approval valid up to 07.06.2020)
	AIR CELL	M/s ZENITH INDUSTRIAL RUBBER PRODUCTS PVT. LTD. THANE (Approval valid up to 31.05.2018)
	AIR CELL	SHENYANG HONGDA GENERAL RUBBER FACTORY, Approval valid up to 31.10.2017
17	ROLLER ASSEMBLY	M/S ALERT ENGINEERING BHOPAL
	ROLLER ASSEMBLY	M/S UNITED BHOPAL
	ROLLER ASSEMBLY	M/S ENGINEERING SERVICE CENTRE NAINI
	ROLLER ASSEMBLY	M/S R.K. INDUSTRIES, BHOPAL
	ROLLER ASSEMBLY	M/S CHAMPION ENGG. INDUSTRIES, BHOPAL
	ROLLER ASSEMBLY	M/S NOBEL ENGINEERING, MUMBAI
	ROLLER ASSEMBLY	M/S FARMER ENGG. , BHOPAL
	ROLLER ASSEMBLY	M/S SIGMA HEAVY ENGINEERING INDUSTRIES BHOPAL, Approval valid upto 19.07.2018
	ROLLER ASSEMBLY	M/s Toshiba transmission & distribution system India pvt. Ltd, Rudraram (approval valid up to 02.11.2017)
18	OTI / WTI/ RTD	M/S PERFECT CONTROL CHENNAI
	OTI / WTI	M/S PRESIMEASURE BANGALORE,(Approval valid upto 30.11.2018)
	OTI / WTI	M/S AKM, SWEDEN
	OTI / WTI	M/S ACCURATE CONTROL, UK
	OTI/WTI	M/S MESSKO, GERMANY
19	PRV/PRD	M/S SUKRUT UDYOG, PUNE approval valid up to 02.05.2020
	PRV/PRD	M/S QUALITROL COMPANY USA
	PRV/PRD	M/S MESSKO, GERMANY
	PRV/PRD	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
	Rapid pressure rise relay (SPR/RPRR)	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.18
	Rapid pressure rise relay (SPR/RPRR) (Model 900-003-	M/s Qualitrol Company LLC, USA, Approval

	02 CS 46518 horizontal mounted and 900-003-32 CS 46369 vertical mounted)	valid up to 03.10.2017
20	MOLG	M/ S SUKRUT UDYOG PUNE approval valid up to 02.05.2020
	MOLG	M/S YOGYA ENTERPRISES, JHANSI
	MOLG	M/S MESSKO, GERMANY
	MOLG	SHENYANG YINHAI ELECTRICAL CO., LTD, Approval valid up to 31.10.2017.
21	GAS COLLECTING DEVICE	M/S YOGYA ENTERPRISES JHANSI
	GAS COLLECTING DEVICE	M/S SUKRUT ELECTRIC CO. PVT. LTD., PUNE, approval valid up to 01.05.2020
22	GATE & GLOBE VALVE	M/S MANIXON INDUSTRY AGRA
	GATE & GLOBE VALVE	M/S GG VALVES LTD. UDAIPUR
	GATE & GLOBE VALVE	M/S LEADER VALVES LTD. , JALANDHAR
	GATE & GLOBE VALVE	M/S NEO ENGINEERING WORKS, AHMEDABAD
	GATE VALVE	M/s XIANJIANG TBEA Group Co. Ltd. , Henyang Electrical Company , China (valid up to 31.08.2016)
23	BUTTERFLY VALVES(RADIATOR VALVES)	M/S PETSON VALVS , COIMBATORE
	RADIATOR VALVES	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
	BUTTERFLY VALVES up to 250 NB	M/s BIMAL TECHNO INDUSTRIES, BHIWANI valid up to 30.05.2016
	BUTTERFLY VALVES	M/s XIANJIANG TBEA Group Co. Ltd. , Henyang Electrical Company, China (valid up to 31.08.2016)
23 A	FLOW SENSITIVE CONSERVATOR VALVE	ETI, ITALY(DAROC SERIES)
	FLOW SENSITIVE CONSERVATOR ISOLATION VALVE	M/s CTR Manufacturing Industries Ltd, Pune (approval valid up to 25.12.2017)
	FLOW SENSITIVE VALVE	M/s Shenyang Power Transformer Accesory Factory, China (approval valid up to 31.08.2016)
	FIRE CONTROL VALVE	SERGI FRANCE
24	SILICAGEL BREATHER	M/S YOGYA ENTERPRISES JHANSI
25	INSULATING OIL	M/S APAR LTD SILVASA, Approval valid upto 03.10.2018
	INSULATING OIL	M/S APAR LTD,THANE APPROVAL VALID UPTO 15.08.2020
	INSULATING OIL	SAVITA OIL TECHNOLOGIES LTD, Silvassa-approval valid up to 06.12.2020
	INSULATING OIL	SAVITA OIL TECHNOLOGIES LTD, NAVI MUMBAI-Approval valid up to 06.03.2019
	INSULATING OIL	NYNAS, SWEDEN
	INSULATING OIL	M/S RAJ PETRO, SILVASA, Approval valid up to 02.10.2018
	INSULATING OIL	M/S RAJ PETRO, CHENNAI
26	STEEL FABRICATED TANK	M/S MECHMEN BHOPAL
	STEEL FABRICATED TANK	M/s SATYAM INDUSTRIES BHOPAL Approval Valid upto 31.07.18.
	STEEL FABRICATED TANK	M/S JYOTI FABRICATOR NAINI(UPTO100 MVA 220 KV) valid up to 02.10.2018
	STEEL FABRICATED TANK	M/S BHEL – BHOPAL
	STEEL FABRICATED TANK	M/s BHEL, JHANSI (up to 220KV class) Approval Valid upto 15.02.2015
	STEEL FABRICATED TANK	M/S MECH & FEB. , BHOPAL
	STEEL FABRICATED TANK	M/S ELECTRO AUTO, BHOPAL Approval valid up

		to 12.01.19
	STEEL FABRICATED TANK	M/S E M ELECTRO MECHANICAL , BHOPAL (UNIT-I) M/S E M ELECTRO MECHANICAL , BHOPAL (UNIT-II) approval valid up to 23.03.2018
	STEEL FABRICATED TANK	M/S E.M. ELECTRO MECHANICAL (UNIT-III), VADODARA. Approval Valid upto 02.02.2019.
	STEEL FABRICATED TANK	M/S PRECISION ENGINEERING, MUMBAI
	STEEL FABRICATED TANK (FABRICATION AND PAINTING)	M/S PRO-TECH ENGINEERS & FAB. PVT LTD, NAVI MUMBAI (PAINTING FROM M/S ABJ SERVICES, THANE)-Approval Valid up to 09.08.2020
	STEEL FABRICATED TANK	M/S BRINZK POWERTECH PVT LTD., VADODARA. Approval valid upto 25.12.2018.
	STEEL FABRICATED TANK	M/s Sigma Heavy Engg. Industries BHOPAL, Approval valid upto 31.03.2018
	STEEL FABRICATED TANK	M/s QUICK HI-TECH ENGG INDIA PVT. LTD, Approval valid upto 08.10.2020
	STEEL FABRICATED TANK	M/s EMCO LIMITED, JALGAON, APPROVAL VALID UP TO 12.05.2018
	STEEL FABRICATED TANK	M/s Baysan Kazan approval valid up to 26.06.2016 for HVDC Tank up to 400KV
	STEEL FABRICATED TANK	M/s Shakti Insulated wires Pvt. Ltd., Pune, approval valid up to 17.08.2020
	STEEL FABRICATED TANK	M/s Toshiba transmission & distribution system India Pvt. Ltd, Rudram (approval valid up to 09.02.2018)
26.b	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s Sigma Heavy Engg. Industries 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
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s QUICK HI-TECH ENGG INDIA PVT. LTD, Approval valid upto 08.10.2020
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S MECHMEN BHOPAL
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S SATYAM INDUSTRIES BHOPAL; Approval Valid upto 31.07.18.
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S JYOTI FABRICATOR NAINI(UPTO100 MVA 220 KV)
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s BHEL, Bhopal
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s BHEL, JHANSI (up to 220KV class) Approval Valid upto 15.08.2015
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S MECH & FEB. , BHOPAL
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S ELECTRO AUTO, BHOPAL, , Approval valid up to 12.01.19
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s PRECISION ENGINEERING, MUMBAI
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S PRO-TECH ENGINEERS & FAB PVT LTD, NAVI MUMBAI. Approval Valid up to 09.08.2020
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S E M ELECTRO MECHANICAL , BHOPAL (UNIT-I) M/S E M ELECTRO MECHANICAL , BHOPAL

		(UNIT-II) approval valid up to 23.03.2018
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S E.M. ELECTRO MECHANICAL (UNIT-III), VADODARA. Approval Valid up to 02.02.2019
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/S BRINZK POWERTECH PVT LTD., VADODARA. Approval valid up to 25.12.2018
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s EMCO LIMITED, JALGAON, APPROVAL VALID UP TO 12.05.2018
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s Baysan Kazan approval valid up to 26.06.2016 for HVDC Tank up to 400KV
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s Shakti Insulated wires Pvt. Ltd., Pune, approval valid up to 17.08.2020
	TANK ACCESSORIES (CONSERVATOR , TURRET & PIPE WORK)	M/s Toshiba transmission & distribution system India pvt. Ltd, Rudraram (approval valid up to 09.02.2018)
26.c	STEEL FOR TANK BODY , TANK COVER , CONSERVATOR & TURRETS	M/S SAIL
	STEEL FOR TANK BODY , TANK COVER , CONSERVATOR & TURRETS	M/S TISCO
	STEEL FOR TANK BODY , TANK COVER , CONSERVATOR & TURRETS	M/S ISSCO
	STEEL FOR TANK BODY , TANK COVER , CONSERVATOR & TURRETS	M/S ESSAR
	STEEL FOR TANK BODY , TANK COVER , CONSERVATOR & TURRETS	M/S RINL
	STEEL FOR TANK BODY , TANK COVER , CONSERVATOR & TURRETS	M/S. JINDAL STEEL AND POWER LIMITED, RAIGARH PLANT
	STEEL FOR TANK BODY , TANK COVER , CONSERVATOR & TURRETS	M/S JINDAL(KARNATKA PLANT:3-10MM PLATE THICKNESS AND THANE PLANT:ABOVE 8 MM PLATE THICKNESS
26.d	PIPES FOR TANK/RADIATORS	M/S JINDAL
	PIPES FOR TANK/RADIATORS	M/S SURYA ROHNI
	PIPES FOR TANK/RADIATORS	M/S AJANTA
	PIPES FOR TANK/RADIATORS	M/S JYOTI METAL –MUMBAI
	PIPES FOR TANK/RADIATORS	M/S TUBE INDIA – MUMBAI
	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
27	RADIATOR	M/S THERMAL TRANSFER BANGALORE
	RADIATOR	M/S CTR MANUFACTURING INDUSTRY PUNE
	RADIATOR	M/S TARANG ENGINEERING PVT LTD, NAGPUR (Approval Valid up to 15.05.2018)
	RADIATOR	M/S BHEL, BHOPAL
	RADIATOR	M/S GURURAJ RADIATORS PVT LTD, NAINI(approval valid up to 26.12.2018)
	RADIATOR	M/S Hi-TECH RADIATOR PVT LTD., MUMBAI, (approval valid up to 25.12.2018)
	RADIATOR	M/S TRIVENI ELECTROPLAST PVT LTD., ALLAHABAD. Approval valid up to 25.12.2018
	RADIATOR	M/s Toshiba transmission & distribution system India pvt. Ltd, Rudraram (approval valid up to 09.02.2018)
28	OIL FLOW INDICATOR	M/ S SUKURT UDYOG PUNE approval valid up to

		02.05.2020
	OIL FLOW INDICATOR	M/s VIAT Instruments Pvt. Ltd., Approval valid up to 20.06.2018
	OIL FLOW INDICATOR	M/s Shenyang Yinhai electrical co. ltd, China.Approval valid upto 31.08.16
29	OIL PUMP	M/ S BEST & CROMPTON ENGG. LTD., CHENNAI
	OIL PUMP	M/s FLOW OIL PUMPS PVT LTD (Flowwell), BANGALORE (Approval valid upto 30.11.2018)
	OIL PUMP	M/S CROMPTON GREAVES, MUMBAI
	OIL PUMP	M/S SPP, UK
30	COOLING FAN & MOTOR ASSLY	M/S MARATHON LTD KOLKATA (approval valid up to 12.02.2018)
	COOLING FAN & MOTOR ASSLY	M/S KHAITAN PVT LTD KOLKATA
	COOLING FAN & MOTOR ASSLY	M/S EPC – KOLKATA
	COOLING FAN	Maschinenfabrik Schormann GmbH, Germany
31	PRESSURE GAUGE	M/ S MANOMETER PVT LTD MUMBAI
	PRESSURE GAUGE	M/S BELLS CONTROLS, KOLKATA
	PRESSURE GAUGE	M/S NSRT, KOLKATA
	PRESSURE GAUGE	M/S H GURU KOLKATA
	PRESSURE GAUGE	
32	OFAF COOLER	M/S GEI HAMON BHOPAL
	OFAF COOLER	M/S SERKHEAT TRANFER, UK
	OFAF COOLER	M/S TADA ELECTRIC JAPAN
	OFAF COOLER	M/S BHEL, BHOPAL
	OFAF COOLER	M/S LUVATA Soderkoping AB, SWEDEN
	UNIT COOLERS	M/S LUVATA HEAT TRANSFER SOLUTION (WUXI), CHINA (approval valid upto 02.09.2016.
	Transformer OIL COOLER	M/s ALFA LAVAL SPA, ITALY approval valid up to 03.12.2016
33	OLTC	M/S BHEL BHOPAL
	OLTC	M/S EASUN MR, CHENNAI & PONDICHERRY
	OLTC	M/S ABB AB COMPONENTS, SWEDAN
	OLTC (up to 220KV class)	M/s CTR manufacturing Industries, Pune , Subject to type test approval
34	OFF CKT TAP SWITCH	M/S BHEL , BHOPAL/ JHANSI
	OFF CKT TAP SWITCH	M/S PARAGON ASSOCIATES,THANE
	OFF CKT TAP SWITCH	M/S ALWAYS LOAD SELECTOR, BANGALORE UP TO 132 KV CLASS valid up to 17.07.2020
35	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 MONITOR	M/S MORGAN SHAFFER – CANADA (Model – CALISTO) ###
	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 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 DGA (Model MGA 2000 series)	M/s Ningbo Ligong Online monitoring Technolgy Co, Ltd. China Valid up to 23.03.2018. ###
36	ON LINE INSULATING OIL DRYING SYSTEM	PTSS-VELCON SYSTEMS – COIMBATORE, INDIA (MODEL- TDS1GA4X- with 4 superdri cartridges and TDS1GA6X & TDS1GA6XS (6 superdri cartridges) with IEC 61850), Approval valid up to 23.10.2020 ###
	ON LINE INSULATING OIL DRYING SYSTEM	M/S TRANSEC LTD – UK (Model – CL3AM), ###
	ON LINE INSULATING OIL DRYING SYSTEM	M/s CEE DEE Vacuum, Pune (Model-TRANS DRY CD 002) Approval valid up to 06.06.2020 ###
37	OPTICAL SENSOR	M/S NOEPTIX INO CANADA,
	OPTICAL SENSOR	M/S OPENSE INO CANADA
	OPTICAL SENSOR	M/S LUMASENSE CANADA,
	OPTICAL SENSOR	M/S FISO TECHNOLOGY INC., Canada Approval valid upto 14.09.2017
38	OIL STORAGE TANK (up to 60kl)	M/S VACCUM PLANT & IND.-PUNE (valid up to 17.03.2017)
	OIL STORAGE TANK (up to 80 Kl)	M/S CEE-DEE –PUNE valid up to 22.06.2018
	OIL STORAGE TANK (up to 80 kL)	M/S SAI CORP INDUSTRIAL TRAILORS, BANGALORE, Approval valid up to 16.08.2020
	OIL STORAGE TANK (up to 20kl)	M/s Toshiba transmission & distribution system India Pvt. Ltd, Rudram (approval valid up to 09.02.2018)
39	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
40	CABLES	POWERGRID APPROVED SOURCES
41	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
	CRGO LAMINATION/CUTTING	M/s KRYFS POWER COMPONENTS LTD, SILVASSA , Approval valid up to 04.12.2020
	CRGO LAMINATION/CUTTING	M/s NLMK India Service Centre Pvt. Ltd., Daman (Approval valid up to 22.06.2018)
	CRGO LAMINATION/CUTTING	M/s JFE Shoji Steel India Pvt. Ltd, Pune Valid up to 17.04.2018
	CRGO CUTTING AND SLITTING	M/S MAHINDRA Intertrade Ltd. (SAVLI-VADODARA). Approval valid upto 28.05.2020 M/S MAHINDRA STEEL SERVICE CENTRE (PUNE)-Approval Valid upto 06.12.2018. M/S MAHINDRA STEEL SERVICE CENTRE (MANDIDEEP)-Approval Valid upto 30.11.2018.
	CRGO CUTTING AND SLITTING	M/S NEXUS ELECTRO STEEL LTD., Thane. Approval valid up to 02.02.2019
	CUTTING LAMINATIONS OF CRGO AND SLIT COILS	M/s POSCO-TMC INDIA PVT LTD., PUNE. Approval Valid up to 06.12.2018
	SLITTING OF CRGO COILS	M/s POSCO-INDIA Pune Processing Centre (IPPC) Pvt Ltd, PUNE. Approval Valid up to 06.12.2018
	CRGO CUTTING AND SLITTING	M/S POSCO POGGENAMP ELECTRIC STEEL PVT LTD., KHEDA, GUJARAT (Approval valid upto

		14.07.2018)
	CRGO Cut Lamination (Approved up to 220KV class)	JAYBEE LAMINATION PVT. LTD, Noida approval valid up to 01.08.2020
42	OIL SAMPLING BOTTLE	M/S ATUL ENTERPRISES LTD, MUMBAI
43	OIL SAMPLING BOTTLE	M/S SCIWNO-TWCH INDUSTRIES DELHI
	TEMPERATURE SENSOR (PT-100)	M/S MESSKO, GERMANY
44	CUTTING AND SUPPLY OF INSULATING MATERIAL (SOURCED FROM WEIDMANN, SWITZERLAND) ALONG WITH MOULDED INSULATION COMPONENTS	M/S GOVIK ELECTRICALS LLTD, THANE. Approval valid up to 23.03.2020
	CUTTING/SHAPING OF INSULATING MATERIAL (Press Board, Lamination Wood),	ENPAY TRANSFORMERS COMPONENTS INDIA PVT LTD, VADODARA, Approval valid up to 30.08.2018
	SUPPLY OF MOULDED INSULATION COMPONENTS	ENPAY TRANSFORMERS COMPONENTS INDIA PVT LTD, VADODARA, Approval valid up to 23.10.2020
	SUPPLY OF MOULDED INSULATION COMPONENTS	M/S SENAPATHY WHITELEY – BANGALORE approval valid up to 24.07.2020
45	CUTTING, SHAPING AND SUPPLY OF INSULATING MATERIAL (PRESS BOARD SOURCED FROM ABB-FIGEHOLM, SWEDEN AND DENSIFIED WOOD-FROM POWERGRID APPROVED SOURCE ONLY) ALONGWITH MOULDED INSULATION COMPONENTS	PUCARO FIGEHOLM INSULATION KIT CENTRE (PFIKC), HALOL, INDIA- Approval Valid up to 07.03.2019
	SUPPLYING CUT INSULATION MATERIALS (SOURCING OF PRESSBOARD FROM RAMAN BOARD, MYSORE)	M/S ABB INDIA LTD., (RAMAN BOARD INSULATION KIT CENTRE) HALOL, VADODARA. Approval Valid up to 03.12.2020
	PROCESSING/CUTTING OF INSULATING MATERIAL	M/S SABAR INDUSTRIES, VADODARA (Approval valid upto 21.12.2020)
	PROCESSING/CUTTING OF INSULATION MATERIAL (PRESS BOARD/DENSIFIED WOOD)	M/S. DAYALOK TRANSFOERMERS PVT LTD, ALLAHABAD, Approval valid upto 19.01.2019
	MILLING AND CUTTING OF DENSIFIED LAMINATED WOOD	M/S ROCHLING ENGINEERING PLASTIC (I) PVT LTD, THANE (Approval upto 10.09.2020)
	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 UDEL wood	M/s Surendra Composite Pvt. Ltd, Mandideep, approval valid up to 08.05.2018
46	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	BEIJING POWER EQUIPMENT GROUP, BEIJING, CHINA (Approval valid upto 14.11.2020)
	AIR CORE REACTOR (145 KV Class)	M/s Quality Power, Sangli (Approval valid up to 11.05.2020)
	AIR CORE REACTOR (UP TO 145KV CLASS)	TRENCH, Austria/Canada
47	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
48	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
49	CORE CHEESE SEGMENT FOR SHUNT REACTOR	M/S ABB CHONGQING TRANSFORMER LTD, CHINA (Approval Valid upto 30.04.2015)
	CORE PACKETS FOR SHUNT REACTOR	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
	Core Packets(Magnetic Disc Assembly) for Reactors only	M/s VKR Industries, Nashik Approval valid upto 21.01.2019
	Core Packets(Magnetic Disc Assembly) for Reactors only	M/s Mascasts Industries, Mumbai.
50	Paper Insulated copper Lead	M/s GIC Insuflex Conductors Pvt. Ltd. Approval valid up to 15.03.2018
	Copper stranded wire (bare and paper covered)	M/s Rational Engineers Ltd., Palghar approval valid up to 29.11.2017
50	THREADED FASTNER (HARDWARE)	APPROVED SUB VENDORS AS PER COV OF POWERGRID WEBSITE
51	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.

\$\$\$ condition for supply:

Inspection calls shall be raised by transformer/reactor manufacturers for inspection of each lot of CRGO to be used for POWERGRID projects at TKES Nasik works for issuance of CIP so that all process parameters as mentioned in TKES approval letter dtd. 27.08.2015 shall be verified during the inspection by POWERGRID