

## Annexure – A

### LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 19/11/2019

<b>Sr. No.</b>	<b>Item Description</b>	<b>Vendor's Name</b>	<b>Remark</b>
1	A. C. Distribution Board	Amara Raja, Tirupati/ Goenka Switchgear, Nagpur/ KMG A to Z, Noida/ Maktel, Vadodara/ Panva, Nashik/ Power Control System, Sangli/ Vimar, Mumbai/ Chandra Electrical & Electronics, Aurangabad. <b>(Valid upto 30.04.2022)</b>	
2	Air Conditioners	Blue Star/ Carrier/ Kirloskar/ Lloyd/ Voltas	
3	Aluminium Tube	BALCO/ BANCO, Vadodara/ Century, Kolkata/ Gujrat Metal/ HINDALCO/ INDALCO/ NALCO/ SUDAL	
4	Bus Post Insulator (400kV)	Aditya Birla, Halol/ IEC, Bhopal/ Modern, Abu Road/ Sarvana, Cuddalore/ WSI, Chennai/ CJI, Khurja <b>(Valid upto 02.07.2021)</b>	
5	Bus Post Insulator (220kV)	Aditya Birla, Halol/ IEC, Bhopal/ Modern, Abu Road/ Sarvana, Cuddalore/ WSI, Chennai/ CJI, Khurja <b>(Valid upto 02.07.2021)</b>	
6	Bus Post Insulator (132kV)	Aditya Birla, Halol/ IEC, Bhopal/ Modern, Abu Road/ Prathmesh Ceramics, Nashik/ Sarvana, Cuddalore/ WSI, Chennai/ CJI, Khurja <b>(Valid upto 02.07.2021)</b>	
7	Bus Post Insulator (33kV)	Aditya Birla, Halol/ IEC, Bhopal/ Modern, Abu Road/ Prathmesh Ceramics, Nashik/ Sarvana, Cuddalore/ WSI, Chennai/ CJI, Khurja <b>(Valid upto 02.07.2021)</b>	
8	Circuit Breaker (400kV)	ABB, Vadodara/ GE T&D, Chennai/ BHEL, Jhansi/ CG POWER & IND. SOLUTION LTD., Nashik / Siemens, Aurangabad	
9	Circuit Breaker (220kV)	ABB, Vadodara/ GE T&D, Chennai/ CG POWER & IND. SOLUTION LTD., Nashik / Siemens, Aurangabad	
10	Circuit Breaker (132kV)	ABB, Vadodara/ GE T&D, Chennai/ CG POWER & IND. SOLUTION LTD., Nashik/ Siemens, Aurangabad	
11	Circuit Breaker (33kV)	ABB, Vadodara/ CG POWER & IND. SOLUTION LTD., Nashik/ Easun Reyrolle, Hosur/ Megawin Switchgear, Salem/ Schneider, Chennai/ Siemens, Aurangabad/ Vijai Electricals, Hyderabad	
12	Ceiling Fans	Bajaj/ Crompton/ Khaitan/ Orient/ Usha	
13	Clamps & Connectors	Dharia, Pune/ Electromech&Transtech, Kolkata/ Exalt, Mumbai/ Klemmen, Chennai/ National Refra/ Ramelex, Pune/ TM Power Line, Kolkata/ Varad Engineering, Pune/ Vensun Techno Links, Chennai/ Vinayak, Mumbai	
14	Conductor (AAAC)	Apar, Silvassa/ Cabcon India, Kolkata/ Dynamic Cables, Jaipur/ Galada, Silvassa/ Galaxy Transmission, Silvassa valid upto 21.11.2016/ Gammon (formerly Transrail), Silvassa/ Gupta Power Infrastructure, Bhubaneswar/ Hind Aluminium, Silvassa/ ICOMM, Hyderabad/ JSK Ind., Sayli, Silvassa/ KJV Alloy, Boregaon (M.P.) (upto 400kV) Valid upto 17.01.20/ Lumino Ind. Ltd., Kolkata/ Sterlite, Rakholi & Piparia (Silvassa)/ Shashi Cables, Lucknow	

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15	Conductor (ACSR Zebra (Z), ACSR Panther (P) and ACSR Moose (M))	Achyuta Electricals, Hyderabad/ Apar, Silvassa/ Cabcon India, Kolkata/ CMI Energy, Baddi ( <b>only Z &amp; P</b> ) upto 220kV valid upto 14.07.19/ Diamond Power, Vadodara ( <b>only Z &amp; P</b> )/ Dynamic Cables, Jaipur( <b>only Z &amp; P</b> ) upto 220kV valid upto 31.08.19/ ERI Tech, Kolkata/ Galada, Silvassa/ Galaxy Transmission, Sangli/ Galaxy Transmission, Silvassa ( <b>only Z &amp; P</b> ) valid upto <b>21.11.16</b> / Gammon (formerly Transrail), Silvassa/ Gupta Power Infrastructure, Bhubaneshwar/ Hind Aluminium, Silvassa/ Hindustan Vidyut Product Ltd., Gwalior/ JSK Ind., Sayli, Silvassa/ Jyoti Power, Gondal/ Kalpesh, Dhule/ KJV Alloy, Nagpur/ KJV Alloy, Boregaon (M.P.) (upto 400kV) Valid upto 17.01.20/ Kataria Ind., Ratlam ( <b>only Z &amp; P</b> )/ Lumino Ind. Ltd., Kolkata/ Lunkad Alu., Jalgaon ( <b>only Z &amp; P</b> )/ Mahavir Transmission, Dehradun/ MMP, Bhandara/ Prem Cables, Pali (Raj.)/ Prem Conductors, Gandhinagar/ Rajasthan Cables & Cond., Jaipur ( <b>only Z&amp; P</b> )/ Rajputana Cables & Cond., Korba (C.G.) ( <b>only Z&amp; P</b> ) Sterlite, Rakholi&Piparia (Silvassa)/ Shashi Cables, Lucknow/ Vardhman Cables & Conductors, Kolhapur ( <b>only Z &amp; P</b> ) valid upto 22.11.19/ Venkateshwara Wires, Jaipur	
16	Conductor HTLS	ZTT, China/ Hind Aluminium, Silvasa ( <b>upto 220kV &amp; ACSS Type</b> )/ Apar Industries, Silvasa ( <b>ACCC, Invar, Gap, ACSS, AL59</b> )	
17	Conventional C&R Panel for Augmentation/ Bay extension (400kV)	ABB/ Alstom/ CG-ZIV/GE, Bengaluru/ NR Energy Solution India Pvt. Ltd., Panvel/ Schneider/ Siemens/ Sifang Automation India Pvt. Ltd., Bangalore	
18	Conventional C&R Panel for Augmentation/ Bay extension (220kV)	ABB/ Alstom/ Amara Raja, Tirupati/ Ashida/ Avana/ C&S, Noida/ CG-ZIV/ CTR, Nashik (with ROCON, Bulgaria)/ GE, Bengaluru/ Goenka Switchgear Pvt. Ltd., Nagpur/ NR Energy Solution India Pvt. Ltd., Panvel/ Schneider/ SCOPE T&M Pvt. Ltd., Pune/ Siemens/ Venson/ Sifang Automation India Pvt. Ltd., Bangalore/ Danish Pvt. Ltd. ( <b>Valid upto 30.04.2021</b> )	
19	Conventional C&R Panel for Augmentation/ Bay extension (132kV)	ABB/ Alstom/ Amara Raja, Tirupati/ Ashida/ Avana/ C&S, Noida/ CG-ZIV/ CTR, Nashik (with ROCON, Bulgaria)/ GE, Bengaluru/ Goenka Switchgear Pvt. Ltd., Nagpur/ NR Energy Solution India Pvt. Ltd., Panvel/ Schneider/ SCOPE T&M Pvt. Ltd., Pune/ Siemens/ Venson/ Sifang Automation India Pvt. Ltd., Bangalore/ Danish Pvt. Ltd. ( <b>Valid upto 30.04.2021</b> )	

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20	Conventional C&R Panel for Augmentation/ Bay extension (33kV)	ABB/ Alstom/ Amarraraja, Tirupati/ Ashida/ Avana/ C&S, Noida/ CG-ZIV/ CTR, Nashik (with ROCON, Bulgaria)/ Electrocure/ GE, Bengaluru/ Goenka SwitchgearPvt. Ltd., Nagpur/ MCPPL Maktel/ NR Energy Solution India Pvt. Ltd., Panvel/ Popular Switchgear/ Schneider/ SCOPE T&M Pvt. Ltd., Pune/ Siemens/ S. S. Controls Systems Pvt. Ltd., Aurangabad/ Venson/ Vinayak/ Sifang Automation India Pvt. Ltd., Bangalore/ Danish Pvt. Ltd.(Valid upto 30.04.2021)	
21	C. I. Pipe Earthing Set (for Substation)	KapilanshDhatu, Nagpur/ Nagpur Foundries, Nagpur/ R. S. Valves, Hyderabad/ Universal Earthing Systems Pvt. Ltd. (UES), Chennai ( <b>only for Hard Soil Strata &amp; GIS substations</b> )	
22	Current Transformer (CT) (400kV)	ABB, Vadodara/ GE T&D, Chennai/ CG POWER & IND. SOLUTION LTD., Nashik/ Mehru, Bhiwadi/ Toshiba, Hyderabad/Siemens, Aurangabad valid upto 15.03.22	
23	Current Transformer (CT) (220kV)	ABB, Vadodara/ GE T&D, Hosur/ CG POWER & IND. SOLUTION LTD., Nashik/ ITC, Boisar/ Mehru, Bhiwadi/ Toshiba, Hyderabad/Siemens, Aurangabad valid upto 15.03.22	
24	Current Transformer (CT) (132kV)	ABB, Vadodara/ GE T&D, Hosur/CG POWER & IND. SOLUTION LTD., Aurangabad/ ITC, Boisar/ Mehru, Bhiwadi/ Pragati Electricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad	
25	Current Transformer (CT) (33kV)	CG POWER & IND. SOLUTION LTD., Nashik/ ITC, Boisar/ Mehru, Bhiwadi/ Pragati Electricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad/Techno Associates Vidyut Pvt. Ltd.,Dombivali valid upto 30.01.22/ Gemini Instratech Ltd., Nashik Valid upto 19.07.2022	
26	Capacitor Voltage Transformer (CVT) (400kV)	ABB, Vadodara/ GE T&D, Chennai/ CG POWER & IND. SOLUTION LTD., Nashik/Siemens, Aurangabad valid upto 15.03.22	
27	Capacitor Voltage Transformer (CVT) (220kV)	ABB, Vadodara/ GE T&D, Chennai/ CG POWER & IND. SOLUTION LTD., Nashik/ Mehru, Bhiwadi/Siemens, Aurangabad valid upto 15.03.22	
28	Capacitor Voltage Transformer (CVT) (132kV)	ABB, Vadodara/ GE T&D, Chennai/ CG POWER & IND. SOLUTION LTD., Aurangabad/ Mehru, Bhiwadi/Siemens, Aurangabad valid upto 15.03.22	
29	DC Supply Systems:		
	(a) LMLA Battery Set	AAJCO, Kolhapur/ EXIDE, Kolkata/ HBL, Hyderabad/ Manesh Enterprises/ PALSAI Batteries, Pune/ Union Batteries, Pune	
	(b) Battery Charger with DCDB (For LMLA Battery Set)	Armo, Nagpur/ Caldyne, Kolkata/ Chhabi, Jalgaon/ HBL, Hyderabad/ Panva, Nashik	

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	(c) VRLA Battery Set	Amara Raja, Tirupati/ HBL, Vizianagaram, Secunderabad (A.P.)/Exide Industries Limited, Hosur/Energys India Batteries (P) Ltd, Hyderabad/ Manesh Enterprises, Pune <b>(Valid upto 30.05.2022)</b>	
	(d) Micro-Controller Based Battery Charger (For VRLA)	Amara Raja, Tirupati/ Panva, Nashik <b>(Valid upto 14.12.21)</b> / M/s. Servilink enginerrrs Pvt. Ltd. (Valid upto 11.09.2022)	See Note (2)
	(e) DCDB for Micro-Controller Based Battery Charger	Amara Raja, Tirupati/ Panava, Nashik/ Chandra Electrical & Electronics, Aurnagabad <b>(Valid upto 30.04.2022)</b>	See Note (2)
30	Earthwire HDG (7/3.15mm and 7/3.66mm)	Bedmutha Industries, Nashik/ Bharat Wires, Atgaon/ Geekay Wires, Hyderabad/ Jyoti Power Transmission, Ahmedabad/ Millenium Structural, Dhar (M.P.)/ Ramasarup Ind., Kolkata/ Ratlam Wires, Ratlam/ UIC Udyog, Kolkata	
31	Exhaust Fans	Bajaj/ Crompton/ Khaitan/ Orient/ Usha	
32	Fasteners & Washers:		
	(a) Nut & Bolts	Anand Bolts, Ludhiana/ Anshika Fasteners, Nagpur/ ASP Pvt. Ltd., Howrah/ A. V. Forgings, Mohali/ Bharat Ind., Howrah/ BRK Ind., Ludhiana/ Deepak Fasteners, Ludhiana/ Gulf Fasteners <b>(valid upto 19.09.2017)</b> / Garg Fasteners, Ludhiana/ H. R. Steel Ind., Kolkata/ Himalaya Engg. Works, Hyderabad/ Ishitva Fasteners Pvt. Ltd., Hyderabad/ Kadevi, Hyderabad/ Karamtara Fasteners, Tarapur/ Kavcon, Bangalore/ Maheswari Fasteners, Hyderabad/ MilleniumStructurals, Indore/ Nexo Industries, Ludhiana/ Panchsheel Fasteners, Ludhiana/ Paramhari, Nagpur/ R. A. Engineering Industries, Nagpur valid upto 15.04.20/ Ravi Engineers, Amritsar/ Remax India, Ludhiana/ Roshan Impax, Ludhiana/ Sagar Fasteners, Ludhiana/ Techman (India), Chandigarh (Nuts from M/s Techman Enterprise, Panchkula	
	(b) Plain Washers	BRK Ind., Ludhiana/ Deepak Fasteners, Ludhiana/ Garg Fasteners, Ludhiana/Kavcon, Bangalore/ Maheswari Fasteners, Hyderabad/MilleniumStructurals, Indore/Nexo, Ludhiana/ Pura-Auto, Aurangabad/ R. A. Engineering Industries, Nagpurvalid upto 15.04.20/ Remax India, Ludhiana/ Sagar Fasteners	
	(c) Spring Washers	Chempromech Engineers, Nagpur/ Forbes & Gokak, Mumbai/ Forex Fasteners, Ludhiana/ Garg Fasteners, Ludhiana/ Maheswari Fasteners, Hyderabad/ Naveen Metal, Kolkata/ Om Fasteners, Nagpur/ Pura-Auto, Aurangabad/ Springlock, Vadodara/ R. A. Engineering Industries, Nagpur valid upto 15.04.20/ Remax, Ludhiana	

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33	Fire Fighting Equipments	Kanadia, Bhavnagar/ Swastik Synergy Engineering Pvt. Ltd., Khalapur/ safex Fire, Mumbai/Minimax/Zenith
34	Gantry and Equipment Support Structures/ Lighting Masts/ Lightning cum Lighting Masts	Aarati Structures Pvt. Ltd., Nasik ( <b>upto220kV</b> )( <b>valid upto 13.11.2017</b> )/A.K. Power Industries Pvt. Ltd., Kolkata ( <b>upto 220kV</b> )/ Akshar Engineering, Vadodara ( <b>upto 220kV</b> )/ Amitasha Enterprises Pvt. Ltd., Nagpur ( <b>765kV</b> )/ Archon EgiconPvt. Ltd., Gandhinagar ( <b>upto 400kV</b> )( <b>valid upto 04.09.2015</b> )/ Associated Transrail Structures, Vadodara/ Aster, Raipur/ B. G. Shirke, Pune( <b>valid upto 07.05.2018</b> )/ B. S. Transcomm, Hyderabad/B.K. Ind., Raipur ( <b>upto 220 kV</b> )( <b>valid upto 07.05.2018</b> )/ ECI Infra., Hyderabad ( <b>upto220kV</b> )/ Elektrolite, Jaipur ( <b>upto 400kV</b> )/ Electrotherm India Ltd., Vadodara ( <b>400kV</b> )/ EMCO (formerly Urja), Vadodara/ Encorp, Tarapur ( <b>upto 400kV</b> )( <b>valid upto 10.10.2020</b> )/ Gammon India, Nagpur (formerly Transrail)/ Global Towers, Pune/ Goodluck Fabricators, Ghaziabad ( <b>400kV</b> )/ ICOMM Tele. Ltd., Hyderabad ( <b>765kV</b> )/ IVRCL, Nagpur/ JHT Power Engg., Gondal ( <b>upto 220kV</b> )/ Jyoti Structures, Nashik/ K. R. Structures, Wada ( <b>400kV</b> )( <b>valid upto 06.08.2019</b> )/ Kaytx Industries Pvt. Ltd., MandiGobindgarh, Punjab ( <b>upto 220kV</b> ) ( <b>valid upto 15.11.2017</b> )/Kadevi Ind. (P) Ltd., Hyderabad ( <b>upto 220kV</b> )/ Kalpataru Power, Gandhinagar/ Karamtara Engg., Mumbai ( <b>upto 765kV</b> )/ Kavcon, Bangalore/ KEC, Nagpur/ KPTL, Raipur ( <b>765kV</b> )( <b>valid upto 05.06.2018</b> )/Linkson International Ltd., Nagpur ( <b>upto 220kV</b> ) ( <b>valid upto 12.11.2017</b> )/Maheshwari Structures ( <b>only Equipment support structures upto 33kV</b> )/ Meghraj Industries, Supa ( <b>220kV Line - 100MT</b> )/ Matrix Grating Pvt. Ltd., Sangli ( <b>upto 220 kV</b> ) ( <b>valid upto25.04.2021</b> )/Maharashtra Power Transmission Structures Pvt. Ltd. ( <b>upto 400kV</b> )/ Nandan Steel & Power Ltd., Raipur ( <b>upto220kV</b> )/ NEXO Structures, Ludhiana ( <b>upto 220kV</b> )/ Novelty Power & Infratech, Mumbai/ Phoenix Structural & Engg. Pvt. Ltd., Nagpur ( <b>upto 220kV</b> )/ Powerdeal Energy System, Nashik ( <b>upto400kV</b> )( <b>valid upto 11.02.2015</b> )/ Prabhune Fab. & Galv., Sangli & Karad ( <b>upto 400kV</b> ) ( <b>valid upto 17.02.2020</b> )/Prasad Electrical Engg. Pvt. Ltd., Dombivali ( <b>200MT</b> ) ( <b>upto 220kV</b> ) ( <b>valid upto03.07.2019</b> )/ Premier Power, Kolkata ( <b>upto400kV</b> )/Richardson & Cruddas, Nagpur/ Rounak, Nagpur ( <b>upto 220kV for Qty. upto 200MT</b> )/ Rukmini Electricals, Raipur ( <b>upto 220kV</b> )

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		<p>for Qty. upto 200MT)/ Sawaria Pipes Pvt. Ltd., A.P. (upto 220kV)/ Sanvijay, Nagpur (upto400kV)(valid upto 25.02.2020)/Shah Infra Towers (P) Ltd., Davangere (upto400kV)/ Supreme, Kolkata (upto 220 kV)/Shanz Power, Wada (upto 220kV)/ Shilpa Re Rollers, Nagpur/ Shree Vaishnav Industries Pvt. Ltd., Wada (upto 220kV) (valid upto 13.02.2017)/ Shri HariKrishna Industries, Chennai (upto 220kV)/ Smitwin, Bangalore (upto 220kV)/ Sunrise Structures, Nagpur (upto 400kV) (valid upto 25.05.2020)/ Shri Krsna, Jaipur (400 kV) (upto 06.05.2018)/Techno Craft Industries (I) Ltd., Murbad (400kV) (valid upto 25.05.2020)/ Telecom Network Solution, Sikanderabad, UP (765kV)/ TKG Industries, Nagpur (upto 220kV)/ Unique Structural &amp; Towers Ltd. (upto 400kV)/ Unitech Power Transmission, Nagpur/ United Industries, Jaysingpur (upto 400kV)/ Vatco, Navi Mumbai (upto 765kV)/ Varrsana Ispat, Gandhidham (Gujarat) (upto 400kV)(valid upto 06.10.2020)/ Vijay Transmission, Raipur (765kV)/ VinfabEngrs. India Pvt. Ltd. (formerly V. K. Engineers), Mumbai (upto 220kV)/ Vir Electro Engineering, Nashik (upto 220kV)/ RR Ispat, Raipur (upto 220kV)(Valid upto 19.10.21)/Hevins engineering Pvt. Ltd. Upto 220kV (Valid upto 01.03.21)/ Kailash Devbuild (I) Pvt. Ltd., Jabalpur Upto 220kV (Valid upto 04.07.22)</p>	
35	G. I. Cable Trays	<p>CSR Industries, Pune/ Elcon, Pune/ Goenka Switchgear, Nagpur/ Hylite Galvanisers Pvt. Ltd., Chakan, Pune/ Indiana Gratings, Mumbai/ MKSD Industries, Mumbai/ Om Ind., Nagpur/ Omkareshwar Engg., Thane/Parmar, Rajkot/ Pentex Ferro Incorporate, Wada, Dist: Palghar (Valid upto 30.11.21)/ Premier Power Products, Kolkata/ Rajasthan Metal Smelting Co., Jaipur/ Rukmani Electricals, Kolkata &amp; Raipur/ S.S.Industries, Pune valid upto 31.08.21/ Vatco, Navi Mumbai/ Universal Engg., Thane/ R. K. Engineering, Ambarnath (E) (Valid up to 31.01.2021)/ Pentay Ferro Incorporates Wada (Palghar) Valid upto 30.11.21/ Sharda Cable Trays Pvt. Ltd., Pune Valid upto 25.03.22/ Bravo Cable Trays Pvt. Ltd. Navi Maumbai Valid upto 18.07.2022</p>	
36	Horn Gap Fuse	<p>Electrolites (Power) Pvt. Ltd., Jaipur/ Kiron Electrotechnic, Thane/ Universal Isolators, Indore/Hightension Electrical Equipments Pvt Ltd., Howrah/Ultima Switchgears Private Limited, Noida/Faraday Electricals Pvt Ltd., Jaipur/Raychem RPG Limited, Pune/Kiron Textile, Thane</p>	

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37	HT Cables upto 33kV	Apar Industries Ltd., Valsad (Gujarat)/ Diamond, Vadodara/ Dynamic Cables, Jaipur/ Gloster Cables, Secunderabad/ Havells India Ltd., Bhiwadi (Rajasthan)/ Hindustan Vidyut Products, Ghaziabad/ KEC International/ KEI Ind. Ltd., Alwar/ Krishna Cables, Gwalior/ Paramount Communication, Khushkhera/ Polycab Wires, Silvassa/ Ravin, Pune/ Sriram Cables, Bhiwadi/ Teracom Ltd., Goa/ Sriram cables, Bhiwadi, Rajasthan (Valid upto 28.02.21), M/s. CMI Energy, Baddi H.P. (Valid upto 28.02.21)	
38	Insulator Hardware and Earthwire Accessories	Aumni, Vadodar ( <b>upto 400kV</b> )/ A. K. Power, Kolkata ( <b>upto 220kV</b> )/ ASBESCO, Kolkata/ EMI, Mumbai/ IAC, Kolkata/ ITP, Bhandup/ Krsna Transmission, Vadodara ( <b>upto 220kV</b> ), and for 400kV valid upto 16.02.18/ MML, Kolkata/ Mosdorfer India Pvt. Ltd., Nashik ( <b>upto 765kV</b> )/ National Refractories, Morbi ( <b>upto 220kV</b> )/ Nike Industries, Varanasi ( <b>upto 220kV</b> )/ Ramelex Pvt. Ltd. ( <b>upto 220kV</b> )/ Rashtra Udhog, Kolkata/ Sicame India Connectors, Chennai ( <b>Spacer damper only</b> )/ Swamiji Transmission, Kolkata ( <b>upto 220kV</b> ), and for 400kV valid upto 01.02.21/ TLP, Kolkata ( <b>upto400kV</b> )/TAG Corporation, Chennai ( <b>upto 765kV</b> )/ Legion Energy, B'lore ( <b>upto 220kV</b> )/ Supreme, Kolkata ( <b>upto 400kV</b> )/Jainco, Kolkata ( <b>upto 220kV</b> )/ Electromech & Transtech, Kolkata ( <b>upto 400kV</b> )/ Rajasthan Transmat, Jaipur ( <b>upto 220 kV</b> ) valid upto 20.04.18/KSE, Kolkata (upto 400kV) ( <b>Valid upto 05.12.21</b> )/Lords Vanijya Pvt. Ltd., Kolkata (upto 220kV) ( <b>Valid upto 04.09.21</b> )	
39	Insulator Hardware & Conductor Accessories for HTLS type conductor	Ramelex, Pune ( <b>upto 220kV &amp; ACSS Type</b> )/ Dervaux S.A. France ( <b>upto 220kV</b> )/ TAG Corporation, Channai (Valid upto 28.11.20)	See Note (2)
	Insulators (Porcelain):		
40	(a) Disc Type	Aditya Birla Insulators, Rishra/ Allied Ceramics, Kolkata (70KN (N) & (AF), 120KN (N) upto 220kV only)/ BHEL, Jagdishpur (Bangalore)/ Bikaner Ceramics, Bikaner ( <b>upto 220kV</b> ) (for 160kN Valid upto 01.03.2022)/ IEC, Bhopal/ WSI, Chennai/ Imperial Ceramics (upto220kV) valid upto 25.04.21	
	(b) Long Rod Type	Modern Insulators, Abu Road/ Saravana Global Energy Ltd., Cuddalore ( <b>upto 220kV</b> )/ BHEL, Bangalore/BHEL, Sultanpur/W. S. Industries (I) Ltd, Chennai/Aditya Birla Insulators, Hooghly (W)/CYG Insulator Co Ltd, China	
41	Insulators (Polymer Long Rod Type)	Deccan Ent. Hyderabad/ G. K. Xianghe Elect. Pvt. Ltd., Bhopal ( <b>upto 220kV</b> )/ Goldstone Infratech Ltd., Hyderabad/ LAMCO, Hyderabad ( <b>upto 220kV</b> )/ Shree Radhe Ind., Vadodara ( <b>upto 220kV</b> )/ Yamuna	

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		Power, Haryana ( <b>upto 220kV</b> )/ Spark Insulator, Hyderabad ( <b>upto 400 kV</b> )	
42	Insulators (Glass Type)	Global Group Co. Ltd., Yibin, Sichuan, China/ Sediver, China (Shanghai Unit)/ Shandong Ruitai Glass Insulator Co. Ltd., China/Zigong Sediver, Zigong City, Sichuan Province, China	
43	Isolators (400kV)	Alstom T&D India Ltd., Chennai/ Bimco, Hyderabad/ Electrolyte, Jaipur/ Engineers Enterprises, Jaipur/ GR Power, Hyderabad/ Siemens, Hyderabad/ Switchgear and Structural, Hyderabad	
44	Isolators (220kV)	Alstom T&D India Ltd., Chennai/ Bimco, Hyderabad/ CG POWER & IND. SOLUTION LTD., Nashik/ Electrolite, Jaipur/ Engineers Enterprises, Jaipur/ Faraday Ele., Jaipur/ GK Electricals, Bhopal/ G. Nandy, Howrah/ GR Power, Hyderabad/ J. D. Ele., Howrah/ Kiron Electrotech, Thane/ Maktel Power Ltd., Vadodara/ Siemens, Hyderabad/ Switchgear and Structural, Hyderabad/ Trittech Disconnectors (I) Pvt. Ltd., Nashik/ Universal Isolator, Indore/ Air Break Switchgear Product Pvt. Ltd. Vadodara ( <b>Valid upto 02.04.22</b> )	
45	Isolators (132kV)	Bimco, Hyderabad/ CG POWER & IND. SOLUTION LTD., Nashik/ Electrolite, Jaipur/ Engineers Enterprises, Jaipur/ Faraday Ele., Jaipur/ GK Electricals, Bhopal/ G. Nandy, Howrah/ GR Power, Hyderabad/ J. D. Ele., Howrah/ Kiron Electrotech, Thane/ Maktel Power Ltd., Vadodara/ Siemens, Hyderabad/ Switchgear and Structural, Hyderabad/ Trittech Disconnectors (I) Pvt. Ltd., Nashik / Universal Isolator, Indore/ Air Break Switchgear Product Pvt. Ltd. Vadodara ( <b>Valid upto 02.04.22</b> )	
46	Isolators (33kV)	CG POWER & IND. SOLUTION LTD., Nashik/ Elektrolites, Jaipur/ Engineers Enterprises, Jaipur/ Faraday Electricals, Jaipur/ GK Electricals, Bhopal/ G. Nandy, Howrah/ GR Power, Hyderabad/ KironElectrotech, Thane/ Maktel Power Ltd., Vadodara/ Siemens, Hyderabad/ Switchgear and Structural, Hyderabad/ Trittech Disconnectors (I) Pvt. Ltd., Nashik / Universal Isolator, Indore/ Air Break Switchgear Product Pvt. Ltd. Vadodara ( <b>Valid upto 02.04.22</b> )	
47	Lighting Fixtures	Bajaj/ Crompton/ GEC/ Philips/ Shakti Fixtures, Mumbai/ Surya Roshni, Kashipur (Uttarakhand) Valid upto 30.11.2022	
48	Lightning Arrester (400kV)	CG POWER & IND. SOLUTION LTD., Nashik/ Lamco, Hyderabad/ Oblum, Hyderabad( <b>Porcelain Type</b> )/ Oblum, Hyderabad( <b>Polymer Type</b> ) ( <b>valid upto 31.05.2020</b> )	

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### LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 19/11/2019

49	Lightning Arrester (220kV)	CG POWER & IND. SOLUTION LTD., Nashik/ Elektrolite, Jaipur/ Lamco, Hyderabad Oblum, Hyderabad( <b>Porcelain Type</b> )/ Oblum, Hyderabad( <b>Polymer Type</b> ) ( <b>valid upto</b> <b>31.05.2020</b> )/ Raychem-RPG, Halol (Gujarat) <b>(Polymer Type)</b>
50	Lightning Arrester (132kV)	CG POWER & IND. SOLUTION LTD., Nashik/ Elektrolite, Jaipur/ Lamco, Hyderabad/ Oblum, Hyderabad( <b>Porcelain Type</b> )/ Oblum, Hyderabad( <b>Polymer Type</b> ) ( <b>valid upto</b> <b>31.05.2020</b> )/ Raychem-RPG, Halol (Gujarat) <b>(Polymer Type)</b>
51	Lightning Arrester (33kV)	CG POWER & IND. SOLUTION LTD., Nashik/ Elektrolite, Jaipur/ Lamco, Hyderabad/ Oblum, Hyderabad( <b>Porcelain Type</b> )/ Oblum, Hyderabad( <b>Polymer Type</b> ) ( <b>valid upto</b> <b>31.05.2020</b> )
52	LT Cables	Anaraj Cables, Salem (H.P.)/ Apar Industries Ltd., Valsad (Gujarat)/ Cabcom Cables/ Chandresh Cables, Ahmedabad ( <b>Valid upto 31.03.19</b> )/ Colt Cables, Pen (Raigad)/ Daksha Cable Ind., Kandivali/ Dashmesh Cables, Ulhasnagar/ Diamond, Vadodara/ Dynamic Cables, Jaipur/ Gloster Cables Ltd., Secunderabad/ Grid India, Manesar (Haryana)/ Gupta Power Infrastructure Ltd., Bhubaneshwar/ Havells India Ltd., Bhiwadi (Rajasthan)/ Hindustan Vidyut Products, Ghaziabad/ Kanha Cables, Jaipur/ KEC International/ KEI Ind. Ltd., Alwar/ Ketan Enterprises, Mumbai/ KNG Wires & Cable Ltd., H. P./ Krishna Cables, Gwalior/ LASER Cable, Kolkata/ Marco, Sinner/ Paramount Communication, Khushkhera/ Paragon Cable, Delhi/ Polycab Wires, Silvassa/ Revin, Pune/ Satelite Cables, Bhiwadi/ Sriram Cables, Bhiwadi ( <b>Valid upto 28.02.21</b> )/ Suyog, Panchmahal/ Teracom, Kundaim (Goa)/ Tirupati Plastomatic, Jaipur/ Vardhman cables & Conductors, Kolhapur/ Vishal Cables, Ambernath/ Zenium Cables, Valsad ( <b>Valid upto 30.06.21</b> )/ CMI Energy Baddi, (HP)( <b>Valid upto 28.02.21</b> )/ Chandresh Cables, Gandhinagar (Guj.)( <b>Valid upto</b> <b>31.03.19</b> )/Prime cables, New Delhi ( <b>Valid Upto</b> <b>31.03.21</b> )/ Ultracab (India) Ltd., Rajkot, Gujarat <b>(Valid upto 17.05.2022)</b> / Epsilon Cable Pvt. Ltd. Nagpur (only control cable) <b>valid upto 15.06.2022</b> / R R Kabel Ltd. Vadodara <b>valid upto 04.07.2022</b>
53	Marshalling Boxes	Amara Raja, Tirupati/ Electrocure, Shahapur/ Goenka Switchgear, Nagpur/ Ideas Engineering & Constructions, Aurangabad/ KMG A to Z, Noida/ Maktel, Vadodara/ Panva, Nashik/ Power Control

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### LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 19/11/2019

		System, Sangli/ Tushar, Jalgaon/ Chandra Electrical & Electronics, Aurnagabad <b>(Valid upto 30.04.2022)</b>	
54	M. S. Flat/ G. I. Flat	Agarwal Structures, Raipur/ Premier Power, Kolkata/ Pushpak Steels, Pune/ Swastika Steel, Howrah/ Vatco, Navi Mumbai/ Vijay Tr. Pvt. Ltd., Raipur/ Vithal Ind., Raipur/Matrix, Sangli/Shri. Krsna, Jaipur/ Rajasthan Metal Smelting Co., Jaipur/ MKSD Engineering works, Taloja <b>(Valid upto 28.02.21)</b> / S.S. Ind., Pune valid upto 31.08.21	
55	OPGW (Upto 48 Fibre)	ZTT, China valid upto 18.03.18/Sterlite, Piparia, Silvassa valid upto 14.08.18/ ZTT, Chittoor, A.P./Taihan, China/Fujikura Hengton, China/TG Group, China/LS Cable, Korea/SDGI, China/ Apar Ind. Ltd. <b>(Valid upto 05.06.21)</b>	
56	OPGW Accessories	ZTT, China <b>(upto 400 kV)</b> valid upto 18.03.18/TAG Corporation, Chennai <b>(upto 765 kV)</b> / Ribe, China/ Supreme, Kolkata <b>(upto 400 kV)</b> / Sicame	
57	PLCC Equipments:		
	(a) Wave Trap	GE T&D, Hosur/ BPL, Palghat/ Gyro, Hosur/ Quality Power Electrical Equipments Pvt. Ltd., Sangli	
	(b) Coupling Capacitors	ABB, Vadodara/ GE T&D, Hosur/ CG POWER & IND. SOLUTION LTD., Nashik/ Mehru/ Siemens, Aurangabad <b>(for Specific projects only)</b>	
	(c) H. F. Cables	Delton, Delhi/ Techno, Hyderabad	See Note (2)
	(d) Coupling Device	ABB, Andheri/ GE T&D, Delhi <b>(for Specific projects only)</b> / CG-ZIV/ Patson, Nashik	
	(e) PLCC Terminal with Protection Coupler	ABB, Andheri/ GE T&D, Delhi <b>(for Specific projects only)</b> / CG-ZIV	
	(f) EPAX	ABB (Matrix), Vadodara/ IntelliconPvt. Ltd., Ahmedabad (Karel Make)	See Note (2)
58	Power Transformer 765kV ICT & Reactors	GE T&D, Vadodara/ TBEA Energy (India) Pvt. Ltd., Vadodara/ ABB India Limited, (Gujarat)/ABB Power Technologies, Sweden/ ZTR, Ukraine/Crompton Greaves Ltd, Mandideep (MP)/Siemens Ltd., Airoli (Navi Mumbai)/Hyosung Corporation, Korea/ CG Electric Systems, Hungary/Transformers & Rectifiers (I) Ltd., Ahmedabad/Baoding Tianwei Baobian Electric Co. Ltd., China/Toshiba T&D Systems (I) Pvt. Ltd., Telangana.	
59	Power Transformer 400kV ICT& Reactors	ABB Ltd., Vadodara/ ABB Power Technologies, Sweden/GE T&D, Allahabad & Vadodara/ Bharat Bijlee, Thane/ BHEL/ CGL/ EMCO/ Hyosung Corporation, Korea/ IMP/ Kanohar, Merrut/ Prime Meiden Ltd./ T&R/ Siemens Ltd., Airoli (Navi Mumbai)/TBEA Energy (India) Pvt. Ltd., Vadodara/ZTR, Ukraine/ CG Electric Systems, Hungary/ Baoding Tianwei Baobian Electric Co. Ltd.,	

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### LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 19/11/2019

		China/ Toshiba T&D Systems (I) Pvt. Ltd., Telangana	
60	Power Transformer 220kV Class (a) 200MVA, 220/132/11kV (b) 200MVA, 220/132-110/11kV (c) 200MVA, 220/100/22kV (d) 100MVA, 220/132kV (e) 100MVA, 220/132-110kV (f) 100MVA, 220/132-100kV	ABB, Vadodara/ GE T&D, Allahabad & Vadodara/ Bharat Bijlee, Thane/ BHEL, Jhansi & Bhopal/ CG POWER & IND. SOLUTION LTD., Mumbai/ EMCO Ltd., Thane/ IMP, Silvassa/ Indotech Transformers Ltd., Kanchipuram/ Kanohar, Merrut/ Prime Meiden Ltd./Siemens, Kalwa/ Technical Associates, Sitarganj/ Transformers & Rectifiers, Ahmedabad/ TBEA Energy (India) Pvt. Ltd., Vadodara/ Victory Transformers, Chennai/ Toshiba T&D Systems (I) Pvt. Ltd., Telangana/ Voltamp Transformers Ltd., Vadodara ( <b>100MVA</b> )	
61	Power Transformer 220kV Class (a) 50MVA, 220/33kV (b) 50MVA, 220/22kV (c) 50MVA, 220/33/22kV (d) 25MVA, 220/33kV (e) 25MVA, 220/22kV	ABB Ltd., Vadodara/GE T&D, Allahabad/ Bharat Bijlee, Thane/ BHEL, Jhansi & Bhopal/ CG POWER & IND. SOLUTION LTD., Mumbai/ EMCO Ltd., Thane/ IMP, Silvassa/ Kanohar, Merrut/ Prime Meiden Ltd./Siemens, Kalwa/ Technical Associates, Sitarganj/ Tesla Transformers Pvt. Ltd., Bhopal/ Transformers & Rectifiers, Ahmedabad/ TBEA Energy (India) Pvt. Ltd., Vadodara/ Victory Transformers, Chennai/ Toshiba T&D Systems (I) Pvt. Ltd., Telangana (A.P.)/ Voltamp Transformers Ltd., Vadodara	
62	Power Transformer 132kV Class (a) 50MVA, 132/33kV (b) 50MVA, 132-110/33kV (c) 50MVA, 132/22kV (d) 50MVA, 100/22kV (e) 25MVA, 132/33kV (f) 25MVA, 132-110/33kV (g) 25MVA, 132/22kV (h) 25MVA, 132/11kV (i) 25MVA, 132-100/22kV	ABB Ltd., Vadodara/GE T&D, Allahabad/ Bharat Bijlee, Thane/ BHEL, Jhansi/ CG POWER & IND. SOLUTION LTD., Mumbai/ EMCO Ltd., Thane/ IMP, Silvassa/ Indotech Transformers Ltd., Chennai & Kanchipuram/ Kanohar, Merrut/ Prime Meiden Ltd./Schneider/ Siemens, Kalwa/ Technical Associates, Sitarganj/ Tesla Transformers Pvt. Ltd., Bhopal/ Transformers & Rectifiers, Ahmedabad/ TBEA Energy (India) Pvt. Ltd., Vadodara/ Victory Transformers, Chennai/ Toshiba T&D Systems (I) Pvt. Ltd., Telangana (A.P.)/ Voltamp Transformers Ltd., Vadodara	
63	Power Transformer Accessories:		
	(i) Tap Changer Controller cum Transformer Monitoring Unit	a.eberleGmbH/ Dynamic Rating/ Easun - MR ( <b>type TAPCON</b> )/ Pradeep Sales & Services	
	(ii) Digital Tap Position Indicator	Pradeep Sales & Services (type TDC - 2001)/ Precimeasure	See Note (2)
	(iii) Remote Temperature Indicator	Perfect Control/ Pradeep Sales & Services ( <b>type OTC2003/WTC2002</b> )/ Precimeasure	
	(iv) Microprocessor Based Annunciator	Minilec/ Pradeep Sales & Services ( <b>type P350/P400</b> )/ Precimeasure	
	(v) RTD or Winding/ Oil Temperature Indicator	Perfect/ Pradeep Sales & Services ( <b>type RTD2000/RTD2001</b> )/ Precimeasure/ Qualitrol (AKM Brand), Noida	
	(vi) Current Convertor Unit	Pradeep Sales & Services ( <b>type CCU T-203/CCUPT-</b>	See Note

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### LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 19/11/2019

(CCU)/ Transducer for 4 - 20mA output	<b>203</b> / Precimeasure	(2)
(vii) OLTC	CTR ( <b>upto 400kV</b> )/ Easun - MR/ HMG (SHPEL), China/ OLG ( <b>upto 132kV</b> )/BHEL Bhopal	
(viii) 400kV Condenser Bushing	Alstom/ BHEL/ CGL/ Trench	
(ix) 145kV & 245kV Condenser Bushing for EHV Transformer	ABB, Vadodara/ Alstom/ CGL/ BHEL/ Trench, France/ Yash High Voltage, Vadodara ( <b>upto 72.5kV Class</b> )	
(x) Optic Fibre Based Transformer Winding & Oil Temperature Measurement System	FISO, Canada/ Lumasense Technologies (type Thermoset)/ Opsense, Canada make/ Qualitrol (Neoptix brand), Noida	
(xi) Explosion and Fire Prevention System for Transformer - Transformer Protector (TP)	Sergi, France( <b>valid upto 30.07.2019</b> )	See Note (2)
(xii) Fire Protection System for EHV Transformer	CTR Manufacturing Industries Ltd., Pune/ Vendere, Aurangabad/ G. K. Power, Nagpur	
(xiii) Multigas On-Line Dissolved Gas Monitoring System ( <b>9 Gas</b> )	Qualitrol, Mumbai (Serveron Corporation, USA)( <b>Model: TM8/TM8-F</b> )/PCI Ltd. (GEGrid), UK/ A-Eberle, Germany	
(xiv) On-Line Dissolved Gas Monitoring System ( <b>2 Gas</b> )	a.eberle ( <b>Hydrocal-1003</b> )/ Avaco (Callisto)/ BPL Global { <b>model Serveron TMI (optional)</b> }/ Macht { <b>Model Messko Msense@MR. Germany</b> }/ PCI Ltd. { <b>model HYDRAN-M@of GE Syprotec (Canada)</b> }	
(xv) Buchholz (Gas Operated) Relay for EHV Power Transformer	Press-N-Forge, Mumbai/ VIAT Instruments Pvt. Ltd./Instruments &Control, Vadodara/A.J. Services (Prayog), Bombay/Weir Electric, UK/VEB, Germany/ASPE, Italy/Sukrut Electric Co. Pvt. Ltd., Pune/Shenyang Yinhai Electrical Co., Ltd, China/EMB Control AB, Sweden/CEDESPE, Italy/ETI, Italy	
(xvi) Radiator Valve (Throttle/ Butterfly) for EHV Power Transformer	Press-N-Forge, Mumbai/ Petson Valves , Coimbatore (Butterfly)/VIAT Instruments (Butterfly)/Bimal Techno Industries, Bhiwani (Butterfly)/Xianjiang TBEA Group Co. Ltd., Henyang Electrical Company, China (Butterfly)/Maier, Germany (Butterfly)	
(xvii) Magnetic Oil Level Gauge (MOG) for EHV Power Transformer	Press-N-Forge, Mumbai/ Sukrut Udyog, Pune/Yogya Enterprises, Jhansi/ MESSKO, Germany/Shenyang Yinhai Electrical Co., Ltd. China/Comem, Italy/Taijin Industries, South Korea/ Qualitrol, USA	
(xviii) Silica Gel Breather (Regenerative Type) for EHV Power Transformer	Macht, Mumbai ( <b>Model: Messko MTrab@MR Germany</b> )/ Qualitrol, Mumbai ( <b>Model: STB 100/200 Series</b> )/ ZTR, Ukraine/Shenyang Ming Yuan Electric Equipment Co., Ltd., China/ Taijin Industries, South Korea/ Comem, Italy	

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### LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 19/11/2019

	(xix) Silica Gel Breather (Air Dehumidifier) for EHV Power Transformer	Press-N-Forge, Mumbai/ Yogya Enterprises, Jhansi/ZTR, Ukraine/Shenyang Ming Yuan Electric Equipment Co., Ltd., China/ Taijin Industries, South Korea/ Comem, Italy	
	(xx) Oil Surge Relay for EHV Power Transformer	Press-N-Forge, Mumbai	See Note (2)
	(xxi) Pressure Release Valve (PRV) for EHV Power Transformer	Press-N-Forge, Mumbai/ Qualitrol, Noida/ Sukrut Udyog, Pune/ Messko, Germany/ VIAT Instruments Pvt. Ltd.	
	(xxii) Sudden Pressure Relay (SPR)/ Rapid Pressure Rise Relay (RPRR) for EHV Power Transformer	Qualitrol, Noida/ VIAT Instruments Pvt. Ltd.	See Note (2)
	(xxiii) HV Porcelain Bushings upto 36kV Class for EHV Power Transformer	Yash High Voltage, Vadodara/ CJI Porcelain Pvt Ltd, Khurja/Bikaner Porcelain Pvt. Ltd. Bikaner/Samrakshana Electricals Hyderabad/Jaipur Glass Potteries, Jaipur/Baroda Bushing & Insulators, Vadodara	
	(xxiv) RTCC Panel for EHV Power Transformers	Transformer Manufacturers (OEMs)/ Pradeep Sales & Services, Mumbai	
	(xxv) Marshalling Box (Cooling Control Cubicle)	Transformer Manufacturers (OEMs)/ Pradeep Sales & Services, Mumbai	
64	Potential Transformer (PT) (220kV)	CG POWER & IND. SOLUTION LTD., Nashik/ ITC, Boisar/ Mehru, Bhiwadi/ Toshiba, Hyderabad/Siemens, Aurnagabad valid upto 15.03.22	
65	Potential Transformer (PT) (132kV)	CG POWER & IND. SOLUTION LTD., Aurangabad/ ITC, Boisar/ Mehru, Bhiwadi/ PragatiElectricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad	
66	Potential Transformer (PT) (33kV)	CG POWER & IND. SOLUTION LTD., Aurangabad/ ITC, Boisar/ Mehru, Bhiwadi/ Pragati Electricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad/ Techno Associates Vidyut Pvt. Ltd., Dombivali <b>(Valid upto 30.01.2022)</b> / Gemini Instratech Ltd., Nashik <b>Valid upto 19.07.2022</b>	
67	Relay Panels with Bay Controller and SCADA (400kV)	ABB, Bengaluru/ GE T&D, Chennai/ ZIV Automation India P.Ltd./ GE, Bengaluru/ NR Energy, Panvel/ Schneider/ Siemens, Mumbai/ Sifang Automation India Pvt. Ltd., Bangalore	
68	Relay Panels with Bay Controller and SCADA (220kV)	ABB, Bengaluru/ GE T&D, Chennai/ ZIV Automation India P.Ltd./ CTR, Nashik (with ROCON, Bulgaria)/ GE, Bengaluru/NR Energy, Panvel/ Schneider/ Siemens, Mumbai/ Sifang Automation India Pvt. Ltd., Bangalore	
69	Relay Panels with Bay Controller and SCADA	ABB, Bengaluru/ GE T&D, Chennai/ ZIV Automation India P.Ltd./ CTR, Nashik (with ROCON, Bulgaria)/	

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### LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 19/11/2019

	(132kV)	GE, Bengaluru/NR Energy, Panvel/ Schneider/ Siemens, Mumbai/ Sifang Automation India Pvt. Ltd., Bangalore	
70	Relay Panels with Bay Controller and SCADA (33kV)	ABB, Bengaluru/ GE T&D, Chennai/ ZIV Automation India P.Ltd./ CTR, Nashik (with ROCON, Bulgaria)/ GE, Bengaluru/NR Energy, Panvel/ Schneider/ Siemens, Mumbai/ Sifang Automation India Pvt. Ltd., Bangalore	
71	SCADA system for remote monitoring of consumer/ IPP substation	ABB/ Alstom/ Ashida/ CGL/ Chemtrols/ GE, Bengaluru/Goenka Switchgear Pvt. Ltd., Nagpur/NR Energy, Panvel/ Kalkitech/ Schneider/ Siemens/ Synergy	
72	Station Transformer:		
	(i) 500KVA for 33kV & 22kV Class	Esennar, Hyderabad/ Star-Delta, Bhopal/ T&R, Ahmedabad/ Telawne, Navi Mumbai/ Tesla, Bhopal/ Vijai Electricals, Hyderabad	
	(ii) 200KVA for 33kV & 22kV Class	Esennar, Hyderabad/ Kanohar Electricals, Meerut/ Star-Delta, Bhopal/ T&R, Ahmedabad/ Telawne, Navi Mumbai/ Tesla, Bhopal/ Trans Fab, Pune/ Vijai Electricals, Hyderabad	
73	Transformer Oil (Uninhibited, Naphtha Base)	Apar Industries Ltd., Silvassa/ Raj Petro specialities Ltd, Mumbai & Silvassa/ Savita Oil Technologies Ltd., Mumbai	
74	Transformer Oil (Paraffin base)	Anamica Oil Pvt. Ltd./ Apar Industries Ltd., Silvassa/ Columbia Petrochem Pvt. Ltd., Mumbai/ Gandhar Oil Refinery India Ltd., Mumbai/ Raj Petro specialities Ltd., Silvassa/ Savita Oil Technologies Ltd., Mumbai/ Panama Petrochem Ltd., Ankleshwar	

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