

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

<u>Sr. No.</u>	<u>Item Description</u>	<u>Vendor's Name</u>	<u>Remark</u>
1	A. C. Distribution Board	Amara Raja, Tirupati/ Goenka Switchgear, Nagpur/ KMG A to Z, Noida/ Maktel, Vadodara/ Panva, Nashik/ Power Control System, Sangli/ Vimac, Mumbai	
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	
5	Bus Post Insulator (220kV)	Aditya Birla, Halol/ IEC, Bhopal/ Modern, Abu Road/ Sarvana, Cuddalore/ WSI, Chennai	
6	Bus Post Insulator (132kV)	Aditya Birla, Halol/ IEC, Bhopal/ Modern, Abu Road/ Prathmesh Ceramics, Nashik/ Sarvana, Cuddalore/ WSI, Chennai	
7	Bus Post Insulator (33kV)	Aditya Birla, Halol/ IEC, Bhopal/ Modern, Abu Road/ Prathmesh Ceramics, Nashik/ Sarvana, Cuddalore/ WSI, Chennai	
8	Circuit Breaker (400kV)	ABB, Vadodara/ Alstom, Chennai/ BHEL, Jhansi/ CGL, Nashik/ Siemens, Aurangabad	
9	Circuit Breaker (220kV)	ABB, Vadodara/ Alstom, Chennai/ CGL, Nashik/ Siemens, Aurangabad	
10	Circuit Breaker (132kV)	ABB, Vadodara/ Alstom, Chennai/ CGL, Nashik/ Siemens, Aurangabad	
11	Circuit Breaker (33kV)	ABB, Vadodara/ CGL, 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/ Gammon (formerly Transrail), Silvassa/ Gupta Power Infrastructure, Bhubaneshwar/ Hind Aluminium, Silvassa/ ICOMM, Hyderabad/ JSK Ind., Sayli, Silvassa/ KJV Alloy, Boregaon (M.P.)/ Lumino Ind. Ltd., Kolkata/ Sterlite, Rakholi&Piparia (Silvassa)	
15	Conductor (ACSR Zebra (Z), ACSR Panther (P) and ACSR Moose (M))	Achyuta Electricals, Hyderabad/ Apar, Silvassa/ Cabcon India, Kolkata/ CMI Energy, Baddi (only Z & P)/ Diamond Power, Vadodara (only Z & P)/ Dynamic Cables, Jaipur/ ERI Tech, Kolkata/ Galada, Silvassa/ Galaxy Transmission, Sangli & Silvassa/ Gammon (formerly Transrail), Silvassa/ Gupta Power Infrastructure, Bhubaneshwar/ Hind Aluminium, Silvassa/ Hindustan Vidyut Product Ltd., Gwalior/ JSK Ind., Rakholi & Sayli, Silvassa/ Jyoti Power, Gondal/ Kalpesh, Dhule/ KJV Alloy, Nagpur/ Kataria	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

<u>Sr. No.</u>	<u>Item Description</u>	<u>Vendor's Name</u>	<u>Remark</u>
		Ind., Ratlam (only Z & P)/ Lumino Ind. Ltd., Kolkata/ Lunkad Alu., Jalgaon (only Z & P)/ Mahavir Transmission, Dehradun/ MMP, Bhandara/ Prem Cables, Pali (Raj.)/ Prem Conductors, Gandhinagar/ Rajasthan Cables & Cond., Jaipur (only Z & P)/ Rajputana Cables & Cond., Korba (C.G.) (only Z & P) Sterlite, Rakholi & Piparia (Silvassa)/ Vardhman Cables & Conductors, Kolhapur (only Z & P)/ Venkateshwara Wires, Jaipur	
16	Conductor HTLS	ZTT, China/ Hind Aluminium, Silvasa (upto 220kV & ACSS Type)	See Note (2)
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/ Amararaja, 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	
19	Conventional C&R Panel for Augmentation/ Bay extension (132kV)	ABB/ Alstom/ Amararaja, 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	
20	Conventional C&R Panel for Augmentation/ Bay extension (33kV)	ABB/ Alstom/ Amararaja, Tirupati/ Ashida/ Avana/ C&S, Noida/ CG-ZIV/ CTR, Nashik (with ROCON, Bulgaria)/ Electrocure/ GE, Bengaluru/ Goenka Switchgear Pvt. 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	
21	C. I. Pipe Earthing Set (for Substation)	Kapilansh Dhatu, Nagpur/ Nagpur Foundries, Nagpur/ R. S. Valves, Hyderabad/ Universal Earthing Systems Pvt. Ltd. (UES), Chennai (only for Hard Soil Strata & GIS substations)	
22	Current Transformer (CT) (400kV)	ABB, Vadodara/ Alstom, Chennai/ CGL, Nashik/ Lustre Engineering Corporation, Rabale, Navi Mumbai/ Mehru, Bhiwadi/ Toshiba, Hyderabad	
23	Current Transformer (CT) (220kV)	ABB, Vadodara/ Alstom, Hosur/ CGL, Nashik/ ITC, Boisar/ Lustre Engineering Corporation, Rabale, Navi Mumbai/ Mehru, Bhiwadi/ Toshiba, Hyderabad	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
24	Current Transformer (CT) (132kV)	ABB, Vadodara/ Alstom, Hosur/ CGL, Nashik/ ITC, Boisar/ Lustre Engineering Corporation, Rabale, Navi Mumbai/ Mehru, Bhiwadi/ Pragati Electricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad	
25	Current Transformer (CT) (33kV)	CGL, Nashik/ ITC, Boisar/ Mehru, Bhiwadi/ Pragati Electricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad	
26	Capacitor Voltage Transformer (CVT) (400kV)	ABB, Vadodara/ Alstom, Chennai/ CGL, Nashik	
27	Capacitor Voltage Transformer (CVT) (220kV)	ABB, Vadodara/ Alstom, Chennai/ CGL, Nashik/ Mehru, Bhiwadi	
28	Capacitor Voltage Transformer (CVT) (132kV)	ABB, Vadodara/ Alstom, Chennai/ CGL, Nashik/ Mehru, Bhiwadi	
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	
	(c) VRLA Battery Set	Amara Raja, Tirupati/ HBL, Vizianagaram, Secunderabad (A.P.)/ Exide Industries Limited, Hosur/ Enersys India Batteries (P) Ltd, Hyderabad	
	(d) Micro-Controller Based Battery Charger (For VRLA)	Amara Raja, Tirupati	See Note (2)
	(e) DCDB for Micro-Controller Based Battery Charger	Amara Raja, Tirupati	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/ 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/ Millenium Structurals, Indore/ Nexo Industries, Ludhiana/ Panchsheel Fasteners, Ludhiana/ Paramhari,	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
		Nagpur/ R. A. Engineering Industries, Nagpur/ 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/ Millenium Structural, Indore/ Nexo, Ludhiana/ Pura-Auto, Aurangabad/ R. A. Engineering Industries, Nagpur/ 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/ Remax, Ludhiana	
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 (upto 220kV)/ A.K. Power Industries Pvt. Ltd., Kolkata (upto 220kV)/ Akshar Engineering, Vadodara (upto 220kV)/ Amitasha Enterprises Pvt. Ltd., Nagpur (765kV)/ Archon EgiconPvt. Ltd., Gandhinagar (upto 400kV)/ Associated Transrail Structures, Vadodara/ Aster, Raipur/ B. G. Shirke, Pune/ B. S. Transcomm, Hyderabad/ B. K. Ind., Raipur (upto 220 kV)/ ECI Infra., Hyderabad (upto 220kV)/ Elektrolite, Jaipur (upto 400kV)/ Electrotherm India Ltd., Vadodara (400kV)/ EMCO (formerly Urja), Vadodara/ Encorp, Tarapur (upto 220kV)/ Gammon India, Nagpur (formerly Transrail)/ Global Towers, Pune/ Goodluck Fabricators, Ghaziabad (400kV)/ ICOMM Tele. Ltd., Hyderabad (765kV)/ Inabensa Bharat, Halol(upto 400kV)/ IVRCL, Nagpur/ JHT Power Engg., Gondal (upto 220kV)/ Jyoti Structures, Nashik/ K. R. Structures, Wada (upto 400kV)/ Kaytx Industries Pvt. Ltd., MandiGobindgarh, Punjab (upto 220kV)/Kadevi Ind. (P) Ltd., Hyderabad (upto 220kV)/ Kalpataru Power, Gandhinagar/ Karamtara Engg., Mumbai (upto 765kV)/ Kavcon, Bangalore/ KEC, Nagpur/ KPTL, Raipur (765kV)/Linkson International Ltd., Nagpur (upto 220kV)/Maheshwari Structures (only Equipment support structures upto 33kV)/ Meghraj Industries, Supa (220kV Line - 100MT)/ Matrix, Sangli (upto 132 kV & upto 150 MT)/Nandan Steel & Power Ltd., Raipur (upto 220kV)/ NEXO Structures, Ludhiana (upto 220kV)/ Novelty Power	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

<u>Sr. No.</u>	<u>Item Description</u>	<u>Vendor's Name</u>	<u>Remark</u>
		& Infratech, Mumbai/ Phoenix Structural & Engg. Pvt. Ltd., Nagpur (upto 220kV)/ Powerdeal Energy System, Nashik (upto 400kV)/ Prabhune Fab. & Galv., Sangli & Karad (upto 400kV)/ Premier Power, Kolkata (upto 400kV)/ Richardson & Cruddas, Nagpur/ Rounak, Nagpur (upto 220kV for Qty. upto 200MT)/ Rukmini Electricals, Raipur (upto 220kV for Qty. upto 200MT)/ Sawaria Pipes Pvt. Ltd., A.P. (upto 220kV)/ Shah Infra Towers (P) Ltd., Davangere (upto 400kV)/ Supreme, Kolkata (upto 220 kV)/Shanz Power, Wada (upto 220kV)/ Shilpa Re Rollers, Nagpur/ Shree Vaishnav Industries Pvt. Ltd., Wada (upto 220kV)/ Smitwin, Bangalore (upto 220kV)/ Sunrise Structures, Nagpur (400kV)/ Shri Krsna, Jaipur (upto 400 kV)/ Techno Craft Industries (I) Ltd., Murbad (upto 220kV)/ Telecom Network Solution, Secunderabad (upto 765kV)/ TKG Industries, Nagpur (upto 132kV)/ Unique Structural & Towers Ltd. (upto 400kV)/ Unitech Power Transmission, Nagpur/ United Industries, Jaysingpur (upto 400kV)/ Vatco, Navi Mumbai (upto 765kV)/ Vijay Transmission, Raipur (765kV)/ Vinfab Engrs. India Pvt. Ltd. (formerly V. K. Engineers), Mumbai (upto 220kV)/ Vir Electro Engineering, Nashik (upto 220kV)	
35	G. I. Cable Trays	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, Thane/ Premier Power Products, Kolkata/ Rajasthan Metal Smelting Co., Jaipur/ Rukmani Electricals, Kolkata & Raipur/ S. N. Electricals Ltd., Pune/ Vatco, Navi Mumbai/ Universal Engg., Thane	
36	Horn Gap Fuse	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	
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	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
38	Insulator Hardware and Earthwire Accessories	Aumni, Vadodar (upto 400kV)/ A. K. Power, Kolkata (upto 220kV)/ ASBESCO, Kolkata/ EMI, Mumbai/ IAC, Kolkata/ ITP, Bhandup/ Krsna Transmission, Vadodara (upto 220kV)/ MML, Kolkata/ Mosdorfer India Pvt. Ltd., Nashik (upto 765kV)/ National Refractories, Morbi (upto 220kV)/ Nike Industries, Varanasi (upto 220kV)/ Ramelex Pvt. Ltd. (upto 220kV)/ Rashtra Udhyog, Kolkata/ Sicame India Connectors, Chennai (Spacer damper only)/ Swamiji Transmission, Kolkata (upto 220kV)/ TLP, Kolkata (upto 400kV)/TAG Corporation, Chennai (upto 765kV)/ Legion Energy, B'lore (upto 220kV)/ Supreme, Kolkata (upto 400kV)/Jainco, Kolkata (upto 220kV)/ Electromech & Transtech, Kolkata (upto 400kV)/ Rajasthan Transmat, Jaipur (upto 220 kV)	
39	Insulator Hardware & Conductor Accessories for HTLS type conductor	Ramelex, Pune (upto 220kV & ACSS Type)/ Dervaux S.A. France (upto 220kV)	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 (upto 220kV)/ IEC, Bhopal/ WSI, Chennai	
	(b) Long Rod Type	Modern Insulators, Abu Road/ Saravana Global Energy Ltd., Cuddalore (upto 220kV)/ 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 (upto 220kV)/ Goldstone Infratech Ltd., Hyderabad/ LAMCO, Hyderabad (upto 220kV)/ Shree Radhe Ind., Vadodara (upto 220kV)/ Yamuna Power, Haryana (upto 220kV)/ Spark Insulator, Hyderabad (upto 400 kV)	
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/ CGL, Nashik/ Electrolite, Jaipur/ Engineers Enterprises, Jaipur/ Faraday Ele., Jaipur/ GK Electricals, Bhopal/ G. Nandy, Howrah/ GR Power, Hyderabad/ J. D. Ele., Howrah/ KironElectrotech, Thane/ Maktel Power Ltd., Vadodara/ Siemens,	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
		Hyderabad/ Switchgear and Structural, Hyderabad/ Tritech, Nashik/ Universal Isolator, Indore	
45	Isolators (132kV)	Bimco, Hyderabad/ CGL, Nashik/ Electrolite, Jaipur/ Engineers Enterprises, Jaipur/ Faraday Ele., Jaipur/ GK Electricals, Bhopal/ G. Nandy, Howrah/ GR Power, Hyderabad/ J. D. Ele., Howrah/ KironElectrotech, Thane/ Maktel Power Ltd., Vadodara/ Siemens, Hyderabad/ Switchgear and Structural, Hyderabad/ Tritech, Nashik/ Universal Isolator, Indore	
46	Isolators (33kV)	CGL, 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/ Tritech, Nashik/ Universal Isolator, Indore	
47	Lighting Fixtures	Bajaj/ Crompton/ GEC/ Philips/ Shakti Fixtures, Mumbai	
48	Lightning Arrester (400kV)	CGL, Nashik/ Lamco, Hyderabad/ Oblum, Hyderabad	
49	Lightning Arrester (220kV)	CGL, Nashik/ Elektrolite, Jaipur/ Lamco, Hyderabad/ Oblum, Hyderabad/ Raychem-RPG, Halol (Gujarat) (Polymer Type Only)	
50	Lightning Arrester (132kV)	CGL, Nashik/ Elektrolite, Jaipur/ Lamco, Hyderabad/ Oblum, Hyderabad/ Raychem-RPG, Halol (Gujarat) (Polymer Type Only)	
51	Lightning Arrester (33kV)	CGL, Nashik/ Elektrolite, Jaipur/ Lamco, Hyderabad/ Oblum, Hyderabad	
52	LT Cables	Anaraj Cables, Salem (H.P.)/ Apar Industries Ltd., Valsad (Gujarat)/ Cabcom Cables/ Chandresh Cables, Ahmedabad/ 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/ Suyog, Panchmahal/ Teracom, Kundaim (Goa)/ Tirupati Plastomatic, Jaipur/ Vardhman cables & Conductors, Kolhapur/ Vishal Cables, Ambernath/ Zenium Cables, Valsad	
53	Marshalling Boxes	Amara Raja, Tirupati/ Electrocure, Shahapur/ Goenka Switchgear, Nagpur/ Ideas Engineering &	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
		Constructions, Aurangabad/ KMG A to Z, Noida/ Maktel, Vadodara/ Panva, Nashik/ Power Control System, Sangli/ Tushar, Jalgaon	
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	
55	OPGW (Upto 48 Fibre)	ZTT, China/ Sterlite, Piparia, Silvassa/ ZTT, Chennai/ Taihan, China/ Fujikura Hengton, China/ TG Group, China/ LS Cable, Korea/ SDGI, China	
56	OPGW Accessories	ZTT, China (upto 400 kV)/TAG Corporation, Chennai (upto 765 kV)/ Ribe, China/ Supreme, Kolkata (upto 400 kV)/ Sicame	
	PLCC Equipments:		
	(a) Wave Trap	Alstom, Hosur/ BPL, Palghat/ Gyro, Hosur/ Quality Power Electrical Equipments Pvt. Ltd., Sangli	
	(b) Coupling Capacitors	ABB, Vadodara/ Alstom, Hosur/ CGL, Nashik/ Mehru/ Siemens, Aurangabad (for Specific projects only)	
57	(c) H. F. Cables	Delton, Delhi/ Techno, Hyderabad	See Note (2)
	(d) Coupling Device	ABB, Andheri/ Alstom, Delhi (for Specific projects only)/ CG-ZIV/ Patson, Nashik	
	(e) PLCC Terminal with Protection Coupler	ABB, Andheri/ Alstom, Delhi (for Specific projects only)/ CG-ZIV	
	(f) EPAX	ABB (Matrix), Vadodara/ Intellicon Pvt. Ltd., Ahmedabad (Karel Make)	See Note (2)
58	Power Transformer 765kV ICT & Reactors	Alstom, 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., Medak (A.P.)	
59	Power Transformer 400kV ICT & Reactors	ABB Ltd., Vadodara/ ABB Power Technologies, Sweden/ Aditya Vidyut, Bhivandi/ Alstom, 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/ Vijai Electricals, Hyderabad/ ZTR, Ukraine/ CG Electric Systems, Hungary/ Baoding Tianwei Baobian Electric Co. Ltd., China/ Toshiba T&D Systems (I) Pvt. Ltd., Medak (A.P.)	
60	Power Transformer 220kV Class	ABB, Vadodara/ Aditya Vidyut Appliances, Bhivandi/ Alstom, Allahabad & Vadodara/ Bharat Bijlee, Thane/	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
	(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	BHEL, Jhansi & Bhopal/ CGL, 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/ Vijai Electricals, Hyderabad/ Voltamp Transformers Ltd., Vadodara (100MVA)	
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/ Aditya Vidyut Appliances, Bhivandi/ Alstom, Allahabad/ Bharat Bijlee, Thane/ BHEL, Jhansi & Bhopal/ CGL, 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/ Vijai Electricals, Hyderabad/ 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/ Aditya Vidyut Appliances, Bhivandi/ Alstom, Allahabad/ Bharat Bijlee, Thane/ BHEL, Jhansi/ CGL, 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/ Vijai Electricals, Hyderabad/ Voltamp Transformers Ltd., Vadodara	
63	Power Transformer Accessories: (i) Tap Changer Controller cum Transformer Monitoring Unit (ii) Digital Tap Position Indicator (iii) Remote Temperature Indicator (iv) Microprocessor Based Annunciator (v) RTD or Winding/ Oil Temperature Indicator (vi) Current Convertor Unit (CCU)/ Transducer for 4 - 20mA output (vii) OLTC (viii) 400kV Condenser Bushing	a.eberleGmbH/ Dynamic Rating/ Easun - MR (type TAPCON) / Pradeep Sales & Services Pradeep Sales & Services (type TDC - 2001)/ Precimeasure Perfect Control/ Pradeep Sales & Services (type OTC2003/WTC2002) / Precimeasure Minilec/ Pradeep Sales & Services (type P350/P400) / Precimeasure Perfect/ Pradeep Sales & Services (type RTD2000/RTD2001) / Precimeasure/ Qualitrol (AKM Brand), Noida Pradeep Sales & Services (type CCU T-203/CCUPT-203) / Precimeasure CTR (upto 400kV) / Easun - MR/ HMG (SHPEL), China/ OLG (upto 132kV) Alstom/ BHEL/ CGL/ Trench	See Note (2) See Note (2)

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
(ix)	145kV & 245kV Condenser Bushing for EHV Transformer	ABB, Vadodara/ Alstom/ CGL/ BHEL/ Trench, France/ Yash High Voltage, Vadodara (upto 72.5kV Class)	
(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	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 (9 Gas)	Qualitrol, Mumbai (Serveron Corporation, USA) (Model: TM8/TM8-F)/ PCI Ltd. (GE Energy), UK/ A- Eberle, Germany	
(xiv)	On-Line Dissolved Gas Monitoring System (2 Gas)	a.eberle (Hydrocal-1003)/ Avaco (Callisto)/ BPL Global { model Serveron TMI (optional) }/ Macht { Model Messko Msense@MR. Germany }/ PCI Ltd. { model HYDRAN-M@of GE Syprotec (Canada) }	
(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 (Model: Messko MTrab@MR Germany)/ Qualitrol, Mumbai (Model: STB 100/200 Series)/ ZTR, Ukraine/ Shenyang Ming Yuan Electric Equipment Co., Ltd., China/ Taijin Industries, South Korea/ Comem, Italy	
(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)

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
	(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)	CGL, Nashik/ ITC, Boisar/ Mehru, Bhiwadi/ Toshiba, Hyderabad	
65	Potential Transformer (PT) (132kV)	CGL, Nashik/ ITC, Boisar/ Mehru, Bhiwadi/ Pragati Electricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad	
66	Potential Transformer (PT) (33kV)	CGL, Nashik/ ITC, Boisar/ Mehru, Bhiwadi/ Pragati Electricals, Thane/ Toshiba, Hyderabad/ Vidyut Control Systems Pvt. Ltd., Secunderabad	
67	Relay Panels with Bay Controller and SCADA (400kV)	ABB, Bengaluru/ Alstom, Chennai/ CG-ZIV/ 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/ Alstom, Chennai/ CG-ZIV/ 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 (132kV)	ABB, Bengaluru/ Alstom, Chennai/ CG-ZIV/ CTR, Nashik (with ROCON, Bulgaria)/ 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/ Alstom, Chennai/ CG-ZIV/ 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:		
72	(i) 500KVA for 33kV & 22kV Class	Esennar, Hyderabad/ Star-Delta, Bhopal/ T&R, Ahmedabad/ Telawne, Navi Mumbai/ Tesla, Bhopal/	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.

Annexure – A

LIST OF APPROVED VENDORS (FOR SUBSTATIONS) AS ON: 12/05/2017

Sr. No.	Item Description	Vendor's Name	Remark
		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, Mumbai/ 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 Petrospecialities Ltd., Silvassa/ Savita Oil Technologies Ltd., Mumbai	

Note: 1) Above makes are acceptable, subject to their conformity to MSETCL's Latest Technical Specifications.

2) For Some of the equipments/material, there are only 1 or 2 approved vendors. For such items, vendors having the product(s) meeting all the Technical Requirements will also be acceptable subject to Scrutiny by MSETCL.