

Office of the Chief Engineer (Dist. Special Project Cell)
Maharashtra State Electricity Distribution Co. Ltd.

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CE/DSPC/GFSS/842/16534

Date: 27.05.2011.

To,
All prospective bidders of GFSS Tender
for Shrirampur Division under Ahmednagar Circle.

Sub : Reply to the Queries raised by various prospective bidders of GFSS Tender for Shrirampur Division under Ahmednagar Circle during pre-bid meeting held on 18th May, 2011 at “Prakashgad”, MSEDCL, Mumbai.

Ref: Tender No. CE/DSPC/GFSS/T-1/11-12.

The pre-bid meeting of GFSS Tender for Shrirampur Division under Ahmednagar Circle has been conducted on 18th May, 2011 at “Prakashgad”. The reply to queries raised by various prospective bidders of GFSS Tender for Shrirampur Division under Ahmednagar Circle is enclosed herewith as **Annexure-I**.

Thanking you,

Yours sincerely,

Encl: As above

Sd/-
Chief Engineer
(Dist.-SPC)

Copy s.w.r.to:

1. The Director (Projects), MSEDCL Mumbai.
2. The Director (Finance), MSEDCL Mumbai.
3. The Executive Director (Projects), MSEDCL Mumbai.

Copy f.w.cs to:

The Chief General Manager (I/A), MSEDCL Mumbai.

GFSS WORK IN SHRIRAMPUR DIVISION UNDER AHMEDNAGAR CIRCLE

Tender No. CE/ DSPC/ GFSS/T-1/ 11-12

ANNEXURE-I

REPLY TO BIDDER'S QUERIES RAISED DURING PRE-BID MEETING HELD ON 18.05.2011 AT PRAKASHGAD, MSEDCL, MUMBAI

Sr. No.	Name of Bidder	Bidder's Queries	MSEDCL's Response
1	M/s A2Z NEC Ltd., M/s KPTL, Gandhinagar, M/s Bharat Electrical, Sangli.	Estimated cost mentioned in tender notice & tender document is not matching.	Revised estimated cost mentioned in Price Schedule Format (Addendum-2) shall be considered.
2	M/s KPTL, Gandhinagar, M/s Sunil Hi- Tech, Nagpur, M/s Vijai Electrical Ltd., Hyderabad, M/s Ashoka Buildcon, Nashik, M/s NCC, Hyderabad	Technical specification/ Drawing for some items including SDT are not provided in the tender documents	Technical specification/ Drawing of all major equipments including SDT are provided in Volume IV of tender documents.
3	M/s Bharat Electrical, Sangli	In the Activity of 100kVA distribution transformer, LT CT of 200/5A & Meter having CT ratio of 100/5A is indicated.	Meter having CT ratio of 200/5A are to be provided and not 100/5A.
4	M/s Bharat Electrical, Sangli, M/s KPTL, Gandhinagar, M/s Ashoka Buildcon, Nashik, M/s ME&IL, Hyderabad	Activity nos. in Price Schedule Format & in activity schedule are not matching.	Revised Price Schedule Format in Addendum-2 shall be considered.
5	M/s Bharat Electrical, Sangli, M/s Sunil Hi-Tech, Nagpur, M/s Saideep Electrical, Pune	Work Completion Period may be extended	Extension in work completion period is not considered & work completion period shall be 12 months including monsoon period.
6	M/s KPTL, Gandhinagar, M/s Sunil Hi- Tech, Nagpur	Quantity of 63kVA & 100kVA DTC given in the feeder list are not matching with Price Schedule Format.	Total 488 nos. of 100kVA, 11/0.4kV Distribution Transformers are to be installed. However, additional Schedule of 63kVA, 11/0.4kV Distribution Transformer is provided in the tender documents in case, it is required as per site condition.
7	M/s KPTL, Gandhinagar, M/s Ashoka Buildcon, Nashik	Activity & Quantity requirement of some activities are not mentioned in the Price Schedule Format.	Some additional Schedules which may be required as per site conditions are provided in Volume V of Tender documents.
8	M/s KPTL, Gandhinagar, M/s Saideep Electrical, Pune	Specifications for Bay equipments & allied work to be carried-out at EHV Sub-stations are not provided.	List of feeders emanating from EHV substation is provided in the tender documents. The specification of Bay & allied equipment should match with that of MSETCL specifications. List of MSETCL approved vendors is enclosed herewith as Annexure-A .
9	M/s KPTL, Gandhinagar, M/s Sunil Hi-Tech, Nagpur, M/s Saideep Electrical, Pune	10% payment towards mobilisation may be considered. Payment procedure may be modified to ensure release of monthly progressive supply and/ or erection payments.	No mobilisation advance shall be given for this contract. Payment terms shall be as mentioned in Volume II, Section 7 of Tender documents.
10	M/s KPTL, Gandhinagar, M/s Saideep Electrical, Pune, M/s Bharat Electrical, Sangli.	Price variation may be allowed for this contract.	No price variation is allowed.
11	M/s KPTL, Gandhinagar	Limit of Liquidated Damages (LD) should be on incomplete work instead of total contract price.	No LD on work commissioned within contractual period. It is for the work commissioned beyond contractual period.

GFSS WORK IN SHRIRAMPUR DIVISION UNDER AHMEDNAGAR CIRCLE

Tender No. CE/ DSPC/ GFSS/T-1/ 11-12

ANNEXURE-I

REPLY TO BIDDER'S QUERIES RAISED DURING PRE-BID MEETING HELD ON 18.05.2011 AT PRAKASHGAD, MSEDCL, MUMBAI

Sr. No.	Name of Bidder	Bidder's Queries	MSEDCL's Response
12	M/s KPTL, Gandhinagar	Metal spreading is not considered in Bay Activity.	Separate schedule for Metal spreading in the Bay is given in Addendum-2. The same shall be considered.
13	M/s KPTL, Gandhinagar	Single line diagram is required to start the work simultaneously at all the places.	Single line diagram shall be made available to the successful Bidder after award of contract and survey done jointly.
14	M/s KPTL, Gandhinagar	Any extra activity other than that given in the tender cost data sheets, if required to be executed as per site condition, then in such case the Employer shall approve the contractor's proposal.	All the activities required for execution of work are considered in the tender documents. If any activity is required to be executed as per site conditions, the procedure mentioned in tender document shall be followed.
15	M/s KPTL, Gandhinagar, M/s Saideep Electrical, Pune, M/s IL&FS, Gurgaon, M/s ME & IL, Hyderabad	Date of submission of Bid may be extended suitably.	Date of submission is extended upto 02.06.2011 upto 13:00 Hrs. (Refer Addendum-2)
16	M/s KPTL, Gandhinagar	Unit mentioned for PSC Poles are kg for Activity No. 16,17,18 & 19	Unit for PSC Pole shall be read as Nos.
17	M/s KPTL, Gandhinagar	In cost data sheet for Activity No.10E2 for 11kV Termination Kit for 3C, 11kV XLPE Cable, 185 sqmm- item description at sr. no. 1 is for 300 sqmm.	Item description at sr. no.1 shall be read as 185 sq mm for Activity No. 10E2.
18	M/s KPTL, Gandhinagar	In Activity No.10, quantity of concreting & 4Cx2.5 sqmm control cable is not sufficient	Revised Schedule for Bay Activity No.10 is given in Addendum-2. The same shall be considered.
19	M/s KPTL, Gandhinagar	In cost data sheet for Activity No. 10D, activity description mentioned as "Earthing work at 1x5MVA at 33/11 kV S/s"	Activity description shall be read as "Earthing work at 33/11kV S/s".
20	M/s Sunil Hi Tech, Nagpur	Approved vendor list is not provided.	Vendor already approved for GFSS/Infra Project shall be accepted for this Project.
21	M/s Ashoka Buildcon, Nashik	Technical specifications of 63kVA & 100kVA, 11/0.4 kV Three star rated without CSP are not provided	11/0.4kV, 100kVA & 63kVA Distribution Transformers to be provided are of conventional type without three star & without CSP features. Technical specifications of these Distribution Transformers are provided in Volume IV of Tender documents.
22	M/s Megha Engineering, Hyderabad	Schedule formats for Plant & Equipment, Major Construction Materials etc. are not provided in the tender documents.	Bidders may submit the list of the same.
23	IL&FS, Gurgaon	Condition for Electrical contractor's license may be amended suitably i.e. License from other state may be permitted.	Bidder should possess valid Electrical Contractor's License in Maharashtra at the time of Bid submission.
24	M/s Electropath Services Pvt. Ltd.,	In Joint Venture, any or Both Partner together should have Net Worth of not less than 10% of Tender estimated cost instead of 20% that of only Lead Partner as per Tender requirement.	In Joint Venture, any or both partner together should have Network of 10% of tender estimated cost. Lead Partner should fulfill atleast 50% of the requirement of Network. Pl. refer Addendum-2
25	M/s Saideep Electricals, Pune	Billing & submission of Bills procedure to be clarified.	The detailed payment procedure shall be issued to the successful Bidder after award of contract.

Annexure - A

LIST OF APPROVED VENDORS (for substations)			
			As on:15/03/2011
Sr No.	Item Description	Vendor's Name	Remark
1	AC Distribution Board	KMG ATOZ, Noida /Maktel, Vadodara/ Panva, Nashik /Power Control System, Sangli/ Vimax, Mumbai	
2	Air Conditioners	Blue Star / Carrier / Kirloskar / Lloyd / Voltas	
3	Bus Post Insulator, 400KV	Aditya Birla, Halol / IEC, Bhopal / Modern, Abu Road / Sarvana, Cuddalore / WSI, Chennai	
4	Bus Post Insulator, 220KV	Aditya Birla, Halol / IEC, Bhopal / Modern, Abu Road / Sarvana, Cuddalore / WSI, Chennai	
5	Bus Post Insulator, 132KV	Aditya Birla, Halol / IEC, Bhopal / Modern, Abu Road / Sarvana, Cuddalore / WSI, Chennai	
6	Bus Post Insulator, 33KV	Aditya Birla, Halol / IEC, Bhopal / Modern, Abu Road / Sarvana, Cuddalore / WSI, Chennai	
7	CB, 400KV	ABB, Vadodara / Areva, Chennai / BHEL, Jhansi / CGL, Nashik / Siemens, Aurangabad	
8	CB, 220KV	ABB, Vadodara / Areva, Chennai / CGL, Nashik / Siemens, Aurangabad	
9	CB, 132KV	ABB, Vadodara / Areva, Chennai / CGL, Nashik / Siemens, Aurangabad	
10	CB, 33KV	ABB, Vadodara / Areva, Chennai / CGL, Nashik / Easun Reyrolle, Hosur / Megawin Switchgear, Salem / Siemens, Aurangabad	
11	Celing Fans	Bajaj / Crompton / Khaitan / Orient / Usha	
12	Clamps and Connectors	Dharia, Pune / Exalt, Mumbai / Klemmen, Chennai / National Refra/Ramelex, Pune / TM Power Line, Kolkata / Vinayak, Mumbai	
13	Conductor (AAAC)	Apar, Silvassa / Cabcon India, Kolkata/ Galada, Silvassa / Galaxy Transmission, Sangli / Gammon (formerly Transrail), Silvassa / Hindustan Vidyut Product Ltd., Faridabad/ JSK Ind. (formerly Hiren), Silvassa / KJV Alloy, Nagpur / Sterlite Ind., Haridwar/ Sterlite, Sivassa	
14	Conductor (ACSR – Zebra(Z), ACSR Panther(P) and ACSR Moose(M))	Apar, Silvassa / Cabon India, Kolkata / Diamond Power, Vadodara / ERI Tech, Kolkota/ Galada, Silvassa / Galaxy Transmission , Sangli / Gammon (formerly Transrail), Silvassa / Hind Aluminium, Silvassa/ Hindustan Vidyut Product Ltd., Faridabad/JSK Ind. (formerly Hiren) Silvassa/ Jyoti power, Gondal / Kalpesh , Dhule / KJV Alloy, Nagpur/ Kataria Ind., Ratlam (only Z & P) / Lunkad Alu., Jalgaon (only Z & P)/ Prem Cables, Pali(Raj.)/ Prem Conductors, Silvassa / Rajasthan Cables & Cond., Jaipur (only Z & P) / Sterlite Ind., Haridwar/ Sterlite, Sivassa / Venkateshwara Wires, Jaipur	
15	Conventional C&R Panel for augmentation / bay extention, 400KV	ABB / Areva / ER / Siemens	
16	Conventional C&R Panel for augmentation / bay extention, 220KV	ABB / Areva / Avana/ ER / Isosceles / Siemens	
17	Conventional C&R Panel for augmentation / bay extention, 132KV	ABB / Areva / Avana/ ER / Isosceles / Siemens	
18	Conventional C&R Panel for augmentation / bay extention, 33KV	ABB / Areva / Avana/ Electrocare / ER / Isosceles / MCPPL Maktel / Popular Switchgear / Siemens / Venson / Vinayak	

Note : Above makes are acceptable, subject their conformity as per MSETCL's specification.

Annexure - A

LIST OF APPROVED VENDORS (for substations) As on:15/03/2011			
Sr No.	Item Description	Vendor's Name	Remark
19	C.I. Pipe Earthing Set (for Substation)	Kapilansh Dhatu, Nagpur/ R.S.Valves, Hyderabad	
20	CT, 400KV	ABB, Vadodara / Areva, Chennai / BHEL, Jhasi / CGL, Nashik / Mehru, Bhivadi / Siemens, Aurangabad (SF6)	
21	CT, 220KV	ABB, Vadodara / Areva, Hosur / BHEL, Jhasi / CGL, Nashik / Hivolt, Halol / ITC, Boisar / Lamco, Hyderabad/ Mehru, Bhivadi/ SCT, Gaziabad/ Siemens, Aurangabad (SF6)/ UMF, Indore / Victrans, Nagpur	
22	CT, 132KV	ABB, Vadodara / Areva, Hosur / BHEL, Jhasi / CGL, Nashik / Hivolt, Halol / ITC, Boisar / Lamco, Hyderabad/ Mehru, Bhivadi/ Pragati Ele., Thane/ SCT, Gaziabad/ Siemens, Aurangabad (SF6)/ Techno, Dombivali(E) / UMF, Indore / Victrans, Nagpur	
23	CT, 33KV	Atlanta, Thane / Capco, Noida / Emsess Control, Chennai / Gyro, Mumbai / ICC, Sion Mumbai / ITC, Boisar / IEC, Mumbai / Lamco, Hyderabad/ Techno, Dombivali(E) / Trans Delta, Aurangabad / Trans Field, Thane / UMF,Indore	
24	CVT, 400KV	ABB, Vadodara / Areva, Chennai / BHEL, Jhasi / CGL, Nashik/ Mehru, Bhivadi/ Siemens, Aurangabad	
25	CVT, 220KV	ABB, Vadodara / Areva, Chennai / BHEL, Jhasi / CGL, Nashik/ Siemens, Aurangabad	
26	CVT, 132KV	ABB, Vadodara / Areva, Chennai / BHEL, Jhasi / CGL, Nashik/ Mehru, Bhivadi/ Siemens, Aurangabad	
27	DC Supply Systems		
	(a) Charger, 220 V DC	Armo, Nagpur / Caldyne, Kolkata / Chhabi, Jalgaon / HBL, Hyderabad / Panva, Nashik	
	(b) Charger, 110 V DC	Armo, Nagpur / Caldyne, Kolkata / Chhabi, Jalgaon /HBL, Hyderabad / Panva, Nashik	
	(c) Charger with DCDB, 48V DC	Armo, Nagpur /Caldyne, Kolkata / Chhabi, Jalgaon /HBL, Hyderabad / Panva, Nashik	
	(d) Battery, 220 V DC	AAJCO, Kolhapur / EXIDE, Kolkota / HBL, Hyderabad / Union Batteries, Pune	
	(e) Battery, 110V DC	AAJCO, Kolhapur / EXIDE, Kolkota / HBL, Hyderabad / Union Batteries, Pune	
	(f) Battery, 48V DC	AAJCO, Kolhapur / EXIDE, Kolkota / HBL, Hyderabad / Union Batteries, Pune	
28	Earthwire HDG (7/3.15mm and 7/3.66mm)	Bharat Wires, Mumbai / Geekay wires, Hyderabad / Millenium Structural, Dhar(MP) / Ramasarup Ind., Kolkata / Ratlam Wires, Ratlam / UIC Udyog, Kolkata	
29	Exhaust fans	Bajaj / Crompton / Khaitan / Orient / Usha	
30	Fastners & 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 Fastners, Ludhiana / H.R. Steel Ind., Kolkata / Kadevi, AP/ Karamtara Fasteners, Tarapur / Kavcon, Bangalore / Millenium Structurals, Indore / Nexo, Ludhiana/ Remax India, Ludhiana / Techman(India), Chandigarh { Nuts from M/s Techman Enterprise, Panchkula }	
	(b) Plain Washers	BRK Ind., Ludhiana / Deepak Fastners, Ludhiana / Kavcon, Bangalore / Millenium Structurals, Indore / Nexo, Ludhiana / Remax India, Ludhiana	
	(C) Spring Washers	Chempromech Engineers, Nagpur / Forbes & Gokak, Mumbai / Forex Fasteners, Ludhiana / Naveen Metal, Kolkata / Om Fastners, Nagpur/ Springlock, Vadodara	

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LIST OF APPROVED VENDORS (for substations)		As on:15/03/2011	
Sr No.	Item Description	Vendor's Name	Remark
31	Fire Fighting Equipments	Kanadia, Bhavnagar	
32	Gantry and Equipment support structures / Lighting masts / Lighting cum Lightning masts. Upto 400kV	Aster, Raipur/ B.G.Shirke, Pune / EMCO (formerly Urja), Vadodara / Gammom India, Nagpur (formerly Transrail) / Global Tower, Pune/ IVRCL, Nagpur / Jyoti Structures, Nashik / Kalpataru Power, Gandhinagar / Kavcon, Bangalore / KEC, Nagpur / United Industries, Jaysingpur / Vijay Transmission, Raipur.	
33	Gantry and Equipment support structures / Lighting masts / Lighting cum Lightning masts.	Akshar Engineering, Vadodara / Aster, Raipur/ B.G.Shirke, Pune / ECI Infra, Hyderabad/ EMCO (formerly Urja), Vadodara / Gammom India, Nagpur (formerly Transrail) / Global Tower, Pune/ IVRCL, Nagpur / JHT Power Engg, Gondal / Jyoti Structures, Nashik / Kadevi Ind.(P) Ltd., AP/ Kalpataru Power, Gandhinagar / Kavcon, Bangalore/ KEC, Nagpur / K.R. Structures, Thane (for qty upto 200MT)/ NEXO, Ludhiana / Prabhune, Sangli / Shanz Power, Wada / Smitvin Engineers, Bangalore / Rounak, Nagpur (for qty upto 200MT) / Rukmini Electricals, Raipur (for qty upto 200MT) / Sawaria Pipes Pvt. Ltd., AP/ Shah Infra Towers (P) Ltd., Karnataka/ Smitvin, Bangalore/ United Industries, Jaysingpur / Vatco, Navi Mumbai / Vijay Transmission, Raipur / V.K. Engineers, Mumbai	
34	G.I. cable trays	Elcon, Pune / Indiana Gratings, Mumbai / Om Ind., Nagpur / Parmar, Rajkot / Rukmani Electricals (Kolkata & Raipur) / S.N. Enterprise, Pune / Vatco, Navi Mumbai	
35	Horn Gap Fuse	Electrolites (Power) Pvt. Ltd., Jaipur/ Kiron Electrotech, Thane	
36	HT cables upto 33KV	Diamond, Vadodara / Hindustan Vidyut Products, Ghaziabad / KEC International / KEI Ind. Ltd., Alwar / Krishna Cables, Gwalior / Paramount Communication, Khushkhera / Polycab Wires, Silvassa / Ravin, Pune / Sriram Cables, Bhiwadi	
37	Insulator Hardware and Earthwire Accessories	ASBESCO, Kolkata / EMI, Thane / IAC, Kolkata / ITP, Bhandup / Krashna Transmission, Vadodara / MML, Kolkata / National Refractories, Morbi (Only for ORC works)/ Rashtra Udhyog, Kolkata / Swamiji Transmission, Kolkata	
38	Insulators (Porcelain)		
	(a) Disc type	Aditya Birla, Rishra / BHEL, Jagdishpur / IEC, Bhopal (upto 220KV only) / WSI, Chennai	
	(b) Long Rod type	Modern Insulators Ltd., Abu Road / Saravana Global Energy Ltd., Cuddalore	
39	Insulators (Polymer Long Rod type)	Deccan Ent., Hyderabad / G.K. Xianghe Elect. Pvt. Ltd., Bhopal/ Goldstone, Hyderabad	
40	Insulators (Glass type)	Sediver, China/Brazil	
41	IPS Aluminium tube	BALCO / Gujrat Metal / HINDALCO / INDALCO / NALCO / SUDAL	
42	Isolators, 400KV	Bimco, Medak / Engineers Enterprises, Jaipur / GR Power, Hyderabad / Siemens, Hydeabad / Switchgear and Structural, Hyderabad	
43	Isolators, 220KV	Bimco, Hyderabad / CGL, Nashik/ Electrolite, Jaipur / Engineers Enterprise, Jaipur/ Faraday Ele., Jaipur / GK Electricals, Bhopal / G. Nandy, Howrah / GR Power, Hyderabad / Kiron Electotech, Thane / Siemens, Hydeabad / Switchgear and Structural, Hyderabad / Universal Isolator, Indore	

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LIST OF APPROVED VENDORS (for substations)		As on:15/03/2011	
Sr No.	Item Description	Vendor's Name	Remark
44	Isolators, 132KV	Bimco, Hyderabad / CGL, Nashik/ Electrolite, Jaipur / Engineers Enterprise, Jaipur/ Faraday Ele., Jaipur / GK Electricals, Bhopal / G. Nandy, Howrah / GR Power, Hyderabad / Kiron Electotech, Thane / Siemens, Hydeabad / Switchgear and Structural, Hyderabad / Universal Isolator, Indore	
45	Isolators, 33KV	CGL, Nashik/ Electrolite, Jaipur / Engineers Enterprise, Jaipur/ Faraday Ele., Jaipur / GK Electricals, Bhopal / G. Nandy, Howrah / GR Power, Hyderabad / Kiron Electotech, Thane / Siemens, Hydeabad / Switchgear and Structural, Hyderabad / Universal Isolator, Indore	
46	Lighting fixtures	Bajaj / Crompton / GEC / Philips	
47	Lightning Arrester, 400KV	CGL, Nashik / Elpro, Pune/ Lamco, Hyderabad / Oblum, Hyderabad	
48	Lightning Arrester, 220KV	CGL, Nashik / Elektrolite,Jaipur / Lamco, Hyderabad / Oblum, Hyderabad	
49	Lightning Arrester, 132KV	CGL, Nashik / Elektrolite,Jaipur / Lamco, Hyderabad / Oblum, Hyderabad	
50	Lightning Arrester, 33KV	CGL, Nashik / Elektrolite,Jaipur / Lamco, Hyderabad / Oblum, Hyderabad	
51	LT cables	Cabcom Cables / Colt Cables, Pen (Raigad) / Daksha Cable Ind., Kandivali / Dashmesh Cables, Ulhasnagar / Diamond, Vadodara / Grid India, Manesar(Haryana) / Gupta Power Infrastructure Ltd., Bhubaneshwar / Hindustan Vidyut Products,Ghaziabad / Kanha Cables, Jaipur / KEC International / KEI Ind. Ltd.,Alwar / Krishna Cables, Gwalior / Marco, Sinner / Paramount Communication, Khushkhera / Paragon Cable Ind., Delhi / Polycab Wires, Silvassa / Revin,Pune / Satelite Cables,Bhiwadi / Sriram Cables, Bhiwadi/ Suyog, Panchamahar /Teracom, Kundaim (Goa) / Tirupati Plastomatic. Jaipur.	
52	Marshalling Boxes	Electrocare, Shahapur / KMG ATOZ, Noida / Maktel, Vadodara / Panva, Nashik / Power Control System, Sangli / Tushar, Jalgaon	
53	M.S. Flat / G.I. Flat	Agarwal Structures, Raipur / Pushpak Steels, Pune / Swastika Steel, Howrah / Vatco, Navi Mumbai / Vithal Ind., Raipur	
54	PLCC Equipments		
	a) Wave Trap	Areva, Hosur / BPL, Palghat / Gyro, Hosur	
	b) Coupling Capacitors	ABB, Vadodara / Areva, Hosur / CGL, Nashik / Siemens, Aurangabad (for specific projects only)	
	c) H.F. Cable	Delton, Delhi / Techno Hyderabad	
	d) Coupling Device	ABB, Andheri / Areva, Delhi (for specific projects only) / BPL, Palghat / Patson, Nashik	
	e) PLCC Terminal with Protection coupler	ABB, Andheri / Areva, Delhi (for specific projects only) / BPL, Palghat.	
	f) EPAX	ABB (Matrix), Vadodara / BPL, Palghat	
55	Power Transformer 400KV ICT	Aditya Vidyut, Bhivandi / Areva / BHEL / CGL / EMCO / Kanohar, Meerut / T&R / Vijai	

Note : Above makes are acceptable, subject their conformity as per MSETCL's specification.

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LIST OF APPROVED VENDORS (for substations)		As on:15/03/2011	
Sr No.	Item Description	Vendor's Name	Remark
56	Power Transformer 100 MVA & 200 MVA 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 Ltd., Vadodara / Aditya Vidyut Appliances, Bhivandi / Areva, Allahabad / Bharat Bijlee, Thane / BHEL., Jhansi or Bhopal / CGL., Mumbai / EMCO Ltd., Thane / IMP Silvassa / Indotech Transformers Ltd., Kanchipuram/ Kanohar, Meerut / Siemens, Kalwa /Technical Associates, Sitarganj / Transformers and Rectifiers, Ahmedabad / Victory Transformers, Chennai/ Vijai Electricals, Hyderabad/ Voltamp Transformers Ltd., Vadodara	
57	Power Transformer 25 MVA & 50 MVA 220KV Class (a)50MVA,220/33KV. (b)50MVA,220/22KV. (c)50MVA,220/33/22KV (d)25MVA,220/33KV (e)25MVA,220/33KV	ABB Ltd., Vadodara / Aditya Vidyut Appliances, Bhivandi / Areva, Allahabad / Bharat Bijlee, Thane / BHEL., Jhansi or Bhopal / CGL., Mumbai / EMCO Ltd., Thane / IMP Silvassa / Kanohar, Meerut / Siemens, Kalwa / Technical Associates, Sitarganj / Transformers and Rectifiers, Ahmedabad / Victory Transformers, Chennai / Vijai Electricals, Hyderabad	
58	Power Transformer 25MVA & 50 MVA 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 / Areva, Allahabad / Bharat Bijlee, Thane / BHEL., Jhansi / CGL., Mumbai / EMCO Ltd., Thane / IMP Silvassa / Indotech Transformers, Chennai and Kanchipuram. / Kanohar, Meerut / Siemens, Kalwa / Technical Associates / Transformers and Rectifiers, Ahmedabad / Victory Transformers, Chennai / Voltamp, Vadodara / Vijai Electricals, Hyderabad	
59	Power Transformer accessories		
	i) Tap Changer Controller Cum Transformer Monitoring Unit.	A.Eberle Gmbh / Dynamic Rating / Easun-MR(Type TAPCON) / Pradeep Sales & Services	
	ii) Digital Tap Position Indicator	Pradeep Sales & Services (Type TDC-2001.) / Precimeasure	
	iii) Remote Temperature Indicator	Pradeep Sales & Services (Type OTC 2003/ WTC 2002.) / Precimeasure	
	iv) Microprocessor Based Annunciator	Pradeep Sales & Services (Type P350/P400) / Precimeasure	
	v) RTD for Winding /Oil Temperature Indicator	Pradeep Sales & Services (Type RTD 2000/RTD 2001) / Precimeasure	
	vi) CURRENT convertor Unit (CCU)/ Transducer For 4-20mA Output	Pradeep Sales & Services (Type CCU T-203/ CCU PT-203.) / Precimeasure	
	vii) OLTC	CTR / Easun-MR/ OLG (up to 132kV)	
	viii) 145 KV & 245 KV Condenser Bushing For EHV transformer	ABB, Baroda / Areva / CGL / BHEL / Trench, France / Vijai Electricals, Hyderabad {For supply against T-0709 (A&C)}	
	ix) Optic Fiber Based Transformer Winding & Oil Temperature Measurement System	FISO, Canada / Lumasense Technologies (Type Themoset 2) / Precimeasure Control Pvt. Ltd. (Opsense, Canada Make)	
	x) Fire Protection System for EHV Transformer	CTR Manufacturing Industries Ltd / Sergi, Gurgaon	
	xi) On-Line Dissolved Gas Monitoring System	Avaco (Callisto) / PCI Ltd { Model HYDRAN-M@ Of GE Syprotec(Canada) }	

Note : Above makes are acceptable, subject their conformity as per MSETCL's specification.

Annexure - A

LIST OF APPROVED VENDORS (for substations)			
			As on:15/03/2011
Sr No.	Item Description	Vendor's Name	Remark
60	PT, 220KV	CGL, Nashik / BHEL, Jhasi / Hivolt, Halal (Gujrat) / ITC, Boisar/ Mehru, Bhiwadi/ SCT, Gaziabad / Techno, Dombivali (E) / UMF, Indore	
61	PT, 132KV	CGL, Nashik / BHEL, Jhasi / Hivolt, Halal (Gujrat) / ITC, Boisar/ Mehru, Bhiwadi/ Pragati Ele., Thane/ SCT, Gaziabad / Techno, Dombivali (E) / UMF, Indore	
62	PT, 33KV	Atlanta, Thane / Emsess Control, Chennai / Gyro, Mumbai / ICC, Sion Mumbai / IEC, Mumbai / ITC, Boisar / Pragati Ele., Thane/ Techno, Dombivali (E) / Trans Delta, Aurangabad / Trans Field, Thane / UMF, Indore	
63	Relay Panels with Bay controller and SCADA, 400KV	ABB, Bengaluru / Areva, Chennai / Easun Reyrolle, Hosur / Siemens, Mumbai	
64	Relay Panels with Bay controller and SCADA, 220KV	ABB, Bengaluru / Areva, Chennai / Easun Reyrolle, Hosur / Siemens, Mumbai	
65	Relay Panels with Bay controller and SCADA, 132KV	ABB, Bengaluru / Areva, Chennai / Easun Reyrolle, Hosur / Isosceles, Pune (with Nanjing Nari, China) / Siemens, Mumbai	
66	Relay Panels with Bay controller and SCADA, 33KV	ABB, Bengaluru / Areva, Chennai / Easun Reyrolle, Hosur / Isosceles, Pune (with Nanjing Nari, China) / Siemens, Mumbai	
67	SCADA system for remote monitoring of consumer / IPP substation	ABB / Areva / Ashida / CGL / Chemtrols / Eliop / ER / Isosceles / Siemens	
68	Station Transformer	Star - Delta, Bhopal / Tesla/ Vijai Electricals, Hyderabad.	
69	Transformer Oil (Uninhibited, Naptha base)	Apar Industries Ltd., Silvasa / Savita Oil Technologies Ltd., Mumbai	
70	Transformer Oil (Paraffin base)	Anamica Oil Pvt. Ltd. / Apar Industries Ltd., Silvasa / Columbia Petrochem Pvt. Ltd., Mumbai / Gandhar Oil Refinery India Ltd., Mumbai / Raj Petrospecialities Ltd. Silvasa / Savita Oil Technologies Ltd., Mumbai	

Note : Above makes are acceptable, subject their conformity as per MSETCL's specification.