

INDICATIVE VENDOR LIST

FLUE GAS DESULPHURISATION (FGD) SYSTEM PACKAGE

**TECHNICAL SPECIFICATION
SECTION-VI**

Disclaimer for Indicative Vendor List

Reasonable efforts have been made to collate the sub-vendors proposed by the various main contractors from time to time against different Projects/Packages and accepted by NTPC for various items. However, in case of error/omission, if any, and represented by the successful bidder this will be addressed during the execution of the contract based on the material evidence available with MAHAGENCO / Main Contractor.

The approved sub-vendor list drawn is not based on MAHAGENCO driven enlistment process but based on the sub- vendors proposed by various Main Contractors. As such, it is possible that some of the Suppliers/Manufacturers who may be involved in similar work/process may not be appearing in the list as such sub-vendors may not have been proposed by Main Contractors against NAHAGENCO Contracts.

In case the successful bidder chooses to propose additional sub-vendors with relevant experience after the award of the contract such sub-vendors will be considered in terms of GCC, provided the proposals are received sufficiently in time: 90 days prior to ordering date of a Bought Out Items/Start of Manufacturing so as not to impede the progress of the contract.

Sub-vendors have been grouped under different categories of items. It is possible that an item characterized by certain specific features such as range and type required as per Main Contractor's design requirements may not be in the range of the listed sub-vendor's manufacturing process/capability. As such the main contractor to ascertain the vendor's capability to meet his specific requirements before considering a sub-vendor.

It is to be noted by the bidders that any shortfall in contract performance attributable to the sub-vendor listed will not absolve the contractor from his contractual obligations in any manner.

The approval was granted based on the evaluation of relevant capabilities and facilities possessed by the sub-vendor at the time of evaluation. Also, some of the sub-vendors may not be active. As such, the successful bidder is to carry out his own due diligence before considering the listed sub-vendor for subletting: the current status of the sub-vendor, the continued availability of productive resources including Human Resources.

The list of sub-vendors is periodically revised to include new sub-vendors. Such a revision may also see a deletion of certain sub-vendors who may have been disqualified on grounds of inadequate performance or banned in line with MAHAGENCO's banning policy. The then current list will be shared with the successful bidder immediately on award.



BID SPECIFICATION NO.: 45876

ANNEXURE II

APPROVED VENDOR LIST

MSPGCL's APPROVED VENDORS

Sl No	Item	Approved Vendor
BTG		
1	Fasteners	M/s Deepak Fasteners Ltd, Ludhiana
2	Fasteners	M/s Pioneer Nuts & Bolts Pvt Ltd, Ludhiana
3	Supply & Fabrication of Steel Structure	1) M/s Diamond Engineering, Tamilnadu
		2) M/s Vasan Industries, Tamilnadu
		3) M/s ERA Building Systems Ltd, Rudrapur
4	Handrails and gratings	M/s Indiana Gratings Pvt Ltd, Mumbai
5	2)electric hoist for material handling	2. M/s Tractel Tirfor India Pvt Ltd , New Delhi
	3)Knife gate valves	3. M/s Jash Engineering Ltd , Indore
6	Plate Heat Exchanger	1. M/s GEA Ecoflex India, Navi Mumbai
		2.M/s Funke Warmetauscher, GmbH, Germany
		3.M/s Tranter India Pvt Ltd, Pune
		3. M/s Alfa laval
7	PA, FD & ID Fans and Air Preheater for Boilers	M/s L&T Howden Pvt Ltd
8	carbon steel pipe fittings	M/s Allied International S.P.A , Italy
9	C. S.piping and Alloy steel piping	M/s Valcovny Trub Chiumutov
		M/s Arcelor Mittal Tubular Product Roman S.A.,Romania
10	Steel Material	i) M/s Thermosystems pvt. Ltd, Hyderabad
		ii.) power Mech projects ltd, Hyderabad
		iii) Stemcore Alloys & Ispat ltd, Hyderabad
11	Fan statics & RAPH Rotors	M/s Canaan Engg, Mumbai
12	Fabricators of Burner Rack Valve	i) M/s Wesman Thermal Engineering Processes Pvt. Ltd
		ii) Filsep equipment pvt. Ltd.,Baroda
13	piping and fittings	i) M/s Dee development engineers ltd,Harayana
		ii) M/s Gujrat Infrapipes Pvt. Ltd, Vadodara
14	Low pressure fittings	1) M/s Apex Tubes Pvt.Ltd
		2) M/s Tube Products Incorporates, Vadodara
15	Stainless steel low pressure	M/s Apex TUBES ltd
16	Grinding Table & Roller Castings	M/s U P Steels, Muzaffarnagar
17	Scanner cooling air fan	M/s C B Doctor Ventilators Pvt. Ltd, Ahemedabad
18	Sight flow glass	M/s B. K. Equipments Pvt. Ltd, Chennai
19	Safety relief valves	1) M/s Fainger Leser Valves (p) Ltd,Mumbai
		2) M/s Tyco Sanmar Ltd, Mumbai
20	Hoses	1) Bengal Industries pvt. Ltd, Faridabad
		2) Hydroflex pipes (p) Ltd, Gujarat

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		3) SIT Flexible Hose Pvt, Ltd, Vadodara
21	Sky Climbers	M/s N. V. Sky Climbers Europe S.A, Belgium
22	Roof and Side sheeting	M/s Multicolor Steels (India) Pvt. Ltd, New Delhi
23	Access Doors	M/s B M Industries, Vadodara
24	Metallic expansion joints & pipe penetration Bellows	1) M/s Flexatherm Expanllow pvt. Ltd, Vadodara
		2) M/s Lonestar Industries, Chennai
25	Scanner cooling air fan	M/s Andrew Yule & Co. Ltd, Kolkata
26	Circular Hollow section(CHS) pipes in ducting	M/s Jotindra Steels and Tubes Limited, Faridabad
27	Carbon steel pipes-EFW Cat.	M/s Lalit pipes & pipes Ltd, Navi Mumbai
28	Fabrication of Air & Gas Duct	M/s Passive Infra Projects Pvt.Ltd, village-Hassangrh,Rohtak
29	Manufacturing & supply of steam coil Air Preheater(SCAPH)	M/s C. Doctor India Pvt.Ltd, Ahmadabad
30	Manufacturing supply of feed water Tank	M/s Ashruly Engg. Pvt. Ltd, Pune
31	Manufacturing & supply of Acoustic Enclosure	M/s BBM Acoustic India Pvt. Ltd, Pune
32	Low pressure thermal & safety relief valves	M/s Weir BDK Valves, Hubli, Karnataka
33	Castable Refractory	1)M/s Carborundum Universal Limited, Ranipet
		2) M/s Sharada Ceramics Pvt, Ltd, Chennai
		3) M/s Calderys India Refractory Ltd, Katni
34	Steel Material- ISMC Section	M/s Vandana Ispat Limited
		M/s Sunvijay
		M/s Mahamaya steel Industries Limited
35	Mill Roller Tensioning parts Assembly	1) M/s Prayas Engineering Ltd, Gujarat
		2) M/s A.R. Engineering Works, New Delhi
36	Aluminium Trough Plates	M/s Hindalco Industries Limited, New Delhi
37	Supply of Gaskets	M/s Champion Seals (India) Pvt. Ltd, Mumbai
38	Supply of Spring Hangers	M/s Techno Industry, Hawrah
39	Victaulic coupling	M/s Saradha Rubbers,Tiruchirapalli
40	Air and Gas Duct	M/s Sebro's Steel Pvt, Ltd, Chindwara
		1) M/s Lloyds
		2) M/s Rockwool India

Sl No	Item	Approved Vendor
41	Thermal Insulation	3) M/s Roxul Rockwool Insulation India Pvt, Ltd, Bharuch, Gujrat 4) M/s Polybond Insulation Pvt, Ltd, Bhilai
42	Fan hyadraulic & Lubrication units	1) M/s Winstar Hydraulic Pvt. Ltd., Bangalore
43	Fan & Safety valve silencer	1) M/s Indira Industries, Ranipet
44	Flash Tanks	1) M/s GE Godavari Engineering Ltd, AP
45	Fab & supply of Measurement nozzles	1) M/s Fil sep Equipments Pvt.Ltd., Vadodara
46	Ducting support & Hangers	1) M/s Pipe Hangers & Pipe support Pvt.Ltd., Chennai
47	Misc. Tanks	1) M/s G. P. Engineering corporation, Kanpur 2) Power Mech Projects Ltd, Hyderabad 3) M/s Thermosystems Pvt., Ltd, Hyderabad
48	Hangers & supports	1) M/s LISEGA AG, Germany 2) M/s Pipe Supports Ltd., UK
49	Supply of Lubricating Oil	1) M/s ExxonMobil Lubricants.Pvt Ltd.
50	Supply of Gaskets	M/s Champion Seals (India) Pvt. Ltd, Mumbai
51	Supply of Spring Hangers	M/s Techno Industry, Hawrah
52	Chlorination & gas absorption system devices	M/s METITO's subvendors : total 09 nos.
53	Hydraulic unit for loading device & Roller tilting and mandatory spares	M/s HYDAC India Pvt Ltd, Mumbai
54	Carbon & Alloy steel Piping	M/s IBF S.p.A., Italy
55	Castable & pourable Refractories	for castable refractories: 1) M/s Mahakoshal Refractories pvt. Ltd,Katni 2) M/s Castwel Industries Pvt. Ltd, Nagpur for Pourable Refractories: 1)M/s Mahakoshal Refractories pvt. Ltd,Katni 2) M/s Castwel Industries Pvt. Ltd, Nagpur 3) M/s Industrial Associates, Kolkata 4) M/s ABS Refractories Pvt. Ltd,Katni
56	Vacuum Pumps	1) M/s Edwards UK with manufacturing facility in China
57		2) M/s Gardner Denver Nash, China
58	Supply of Vacuum Pumps	M/s Unique Systems , New Jersey , USA
59	Flexible coupling for VFD	M/s Poona Couplings, Pune
60	castable & pourable Refractories	for castable refractories: 1) M/s Mahakoshal Refractories pvt. Ltd,Katni 2) M/s Castwel Industries Pvt. Ltd, Nagpur for Pourable Refractories: 1)M/s Mahakoshal Refractories pvt. Ltd,Katni 2) M/s Castwel Industries Pvt. Ltd, Nagpur 3) M/s Industrial Associates, Kolkata

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		4) M/s ABS Refractories Pvt. Ltd,Katni

Sl No	Item	TENDER-45876/AMENDMENT-7/03-Oct-2017 02:48:54 PM Approved Vendor
Electricals		
1	MOTOR ACTUATORS	ROTORK AUMA LIMITORQUE ANTIREB
2	DRY TYPE TRANSFORMERS	KIRLOSKAR VOLTAMP CROMPTON VIJAY ELECTRICALS, HYD. BHEL POWER PACK UPTO 100 KVA
3	AUXILIARY TRANSFORMER	AREVA ABB CROMPTON GREAVES LTD. VOLTAMP TRANSFORMERS (P)LTD. VIJAY ELECTRICALS KIRLOSKAR BBL BHEL Star Delta, Bhopal EMCO
4	LT POWER AND CONTROL CABLES	UCL CCI KEI INDUSTRIES LTD FINOLEX FORT GLOSTER POLYCAB DELTON ASIAN NICCO PARAMOUNT CABLE CORPN. PARAGON CABLE KRISHNA ELECT. INDUSTRIES Dashmesh Cables INCOM WIRES & CABLES LTD. TERACOM Ltd. (p) RALLISON ELECT
	FOR CONTROL CABLES ONLY	CORDS
		THERMO CABLES LTD. HYDERABAD
5	HT POWER CABLE (HT cable manufacturers having triple extrusion dry cure (ccv) process using nitrogen only are to be selected)	UCL, CCI, FORT GLOSTER, CRYSTAL CABLES INDUSTRIES POLYCAB, ASIAN, NICCO, HINDUSTAN VIDYUT PRODUCTS KEI INDUSTRIES, RPG CABLES Ltd.
6	GEARED MOTORS	POWER BUILD CROMPTON KIRLOSKAR LAXMI HYDRAULICS PVT LTD FOR 415V

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7	CABLE TRAYS	VENUS STEEL, INDIANA, BHARTI, EXPORT, VATCO, RATAN PROJECTS & ENGG LTD. KOLKATA, KANADE ANAND UDYOG, MUMBAI, PATNY SYSTEMS(P) LTD. Hyd, DOLPHIN M/s Inar Profiles Pvt Ltd., Ankapalle M/s Industrial Perforation (I) Pvt Ltd., Kolkata M/s Premier Power Products (CAL) Pvt Ltd, Kolkata M/s Rabi Engineering Works Pvt. Ltd. Kolkata M/s Unitech Fabricators and Engineers Pvt Ltd., Kolkata M/s Associated Power Structures Pvt. Ltd., Gujrat M/s Jamna Metal Co. Pvt Ltd., Delhi M/s Rukmani Electricals & components Pvt Ltd., Kolkata M/s Ratan Engineering Co., Kolkata
8	PROXIMITY SWITCH	AW JAYASHREE
9	VFD (LT Motors)	ABB SIEMENS L&T ALLEN BRADLEY GE FANUC
10	SAFETY SWITCHES	AG JAYASHREE
11	ANNUNCIATOR	PROCON I/C
12	HOOTER	KHERAJ TULLU VAISHNO
13	CONTROL PANELS/ LIGHTING PANELS/ JBS	POSITRONICS. CONTROL & SCHEMATIC VIMAC ELECTRIC PRITHVI TECHNOLOGY POWEROL PANEL & CONTROL L&T SIEMENS SCHNEIDER
14	LT BUS DUCT	STAR DRIVE ELEC MECH CONTROL SCHEMATIC REEP C&S Delhi
15	BATTERY	EXIDE AMARA RAJA HBL AMCO

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16	BATTERY CHARGER	CHHABI
		AMARA RAJA
		HBL
		MASS- TECH.
		AMCO
17	CIRCUIT BREAKER	L&T
		SIEMENS
		ABB
		SCHNEIDER
		GE
18	POWER CONTACTOR/AUXILIARY CONTACTOR	SIEMENS
		L&T
		ABB
		SCHNEIDER
19	NUMERIC PROTECTION RELAYS FOR LT SWITCHGEAR	ABB
		ALSTHOM
		SCHNEIDER
		AREVA
		L&T
20	AUXILIARY RELAY	GEC
		SIEMENS
		JYOTI RE-300
		L&T
		ABB
		SCHNEIDER
21	THERMAL O/L RELAYS	L&T
		SIEMENS
		ABB
		SCHNEIDER
22	PUSH BUTTONS/INDICATING Lamp	SIEMENS
		L&T
		CANDS
		TEKNIC
		SCHNEIDER
23	ELECTRICAL PANEL METER / INDICATING INSTRUMENTS (AMMETER / VOLTMETER)	AEP
		IMP
		MECO
		RISHABH
24	CT (LT)	KAPPA
		SILCON
		PRAYOG
		PRAGATI
		CANDS
		PRECISE
25	DT (LT)	KAPPA
		SILCON
		PRAYOG

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25	LT (LT)	PRAGATI CANDS PRECISE
26	CONTROL TRANSFORMERS (LT)	KAPPA SILCON POWER PACK PRAGATI CANDS PRECISE
27	POWER SWITCH	SIEMENS L&T GE ABB SCHNEIDER
28	SELECTOR SWITCHES and CONTROL SWITCHES	KAYCEE SIEMENS L&T RECON SWITRON
29	TIMERS	GEC ABB SCHNEIDER L&T EIPL
30	FUSES for LT	GEC SIEMENS L&T STANDARD BUSSMANN
31	MCCB	L&T SIEMENS AEG SCHNEIDER
32	MCB	MDS SIEMENS SCHNEIDER
33	Terminal Blocks & Accessories, Side clamp	Connect well Ind. Elmex Controls Wago and Controls
34	DOUBLE COMPRESSION CABLE GLAND	COMET ELECTRO MAG COSMOS POWER ENGG
35	CRIMPING LUGS	DOWELL
36	NUMERIC RELAY FOR HT	ABB

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37	SWTICHGEAR (3.3/6.6/11KV)	AREVA
38	LIGHTING FIXTURES	PHILIPS CGL BAJAJ GE
39	CONDUIT	SENCO M. CHANDRA NAGARJUNA K. K. Ind. Kolkata
40	CABLE LUGS	DOWEL CROWN NIKO FORWARD ENGG.
41	DIESEL GENERATOR	POWERICA JACKSON KIRLOSKAR AVK SEGC LERUY SOMER GD ANKLESARIA & CO.
42	LT MCC	L&T CONTROL SCHEMATIC SIEMENS ABB GE ALSTOM SCHNEIDER CROMPTON
43	H. DG. C.I. Pipe ELECTRODE	HITESH DHATU UDYOG NGP
44	HT HEAT SHRINKABLE END TERMINATION & JOINTING KITS	REYCHEM, RPG
45	FIRE STOP MORTAR SEAL & & FIRE RETARDANT CABLE	SIGNUM FIRE PRTON.(I) PVT. Ltd. VIJAY SYSTEMS ENGINEERS PVT ltd. Mumbai
46	Earthing materials & ELECTRODES Above ground earthing materials	M/s Inar Profiles Pvt Ltd., Ankapalle M/s Industrial Perforation (I) Pvt Ltd., Kolkata M/s Premier Power Products (CAL) Pvt Ltd, Kolkata M/s Rabi Engineering Works Pvt. Ltd. Kolkata M/s Unitech Fabricators and Engineers Pvt Ltd., Kolkata M/s Associated Power Structures Pvt. Ltd., Gujrat M/s Rukmani Electricals & components Pvt Ltd., Kolkata M/s Ratan Engineering Co., Kolkata M/s Jamna Metal Co. Pvt Ltd., Delhi PATNY SYSTEMS(P) LTD. Hyd 1) KANADE ANAND UDYOG, MUMBAI
47	SEAL OF BUSHINGS	TEXPLAS INDIA PVT.LTD.
48	DEPRESSURE RELIEF VALVES	ATVUS, KOLKATA

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48	PRESSURE RELIEF VALVES	SUKRUT UDYOG, PUNE
49	HT SWITCHGEAR	Siemens *
		L&T*
		ALSTOM*
		ABB*
		CROMPTON GREAVES LTD.*
		BHEL
50	MLBD	L&T
		Positronics
		Control and Schematics, Hyderabad
		Vimac
		Prithvi Technology
51	HT Motors (11KV)	Alstom / BHEL / Crompton Greaves Ltd. / Kirloskar Electric Co. Ltd. / Siemens / Marathon Electric/ABB
52	LT Motors (415 V)	Alstom / BHEL / Crompton Greaves Ltd. / Kirloskar Electric Co. Ltd. / Siemens / Marathon Electric / ABB / Bharat Bijlee / Laxmi Hydraulics Ltd.
53	DC Motors	Alstom / BHEL / Crompton Greaves Ltd. / Kirloskar Electric Co. Ltd. / Siemens
54	MV Bus Duct	BHEL / REEP / Power Gear
55	Relay Control Panel (PCR)	ABB / Areva / BHEL
56	Energy Meter (0.2s accuracy class) MEAA meters as per CEA norms	L&T / ABB/ Konzerv
		(subject to availability of type test TC)
57	Relay Test Kit	Megger (Josts Engg Co. Ltd, Pune)
		Doble / Omicron Electronics Asia Ltd., Hongkong / Scope, Pune / Meggar (AVO Pulsar) / PROGRAMMA ELECTRONIKA, SWEDEN
58	Auxiliary / Tripping Relays	ABB / Areva Ltd.,
59	Recorder	Yokogawa / Chino Laxsons, Eurotherm Del
60	Transducer	Automatic Electric Ltd. / Southern Transducers, Chennai / Rishabh, Nasik/ABB
61	HRC Fuses / Semiconductor fuse / Link / Fuse Fittings (HT)	Siemens / Kaycee / L&T / Indo Asian Fuse Gear / Copper Bussman
62	Test Link Block	IMP Powers / ENKAY
63	Control Panel / Desk (PCR)	BHEL Bhopal / Pyrotech Control / Rittal India
64	PLUG In RELAY	OEN / JYOTI / AREVA / ABB
65	Solid State Meters/Trivector Meters	Enercon / L&T/ ABB / BHEL
66	Vacuum Interrupters (HT SWGR)	BEL
67	Instrument Transformers (HT SWGR)	SILKANS / PRAGATI / PRAYOG
68	Current Transformer (HT SWGR)	SILKANS / PRAGATI / PRAYOG
69	Control Transformers (HT SWGR)	Quantum/SILKANS/PRAGATI/PRAYOG/CANDS

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69	Control Transformers (HT SWGR)	Quantum/SILKAANS/PRAGATI/PRAYOG/CANDS
70	Limit Switches / Auxilary Switches	Kaycee / Siemens
71	Breaker Control Switches	SALZER / SETON / AREVA / KAYCEE / RECOM
72	Discrepancy Control Switches	ABB / Control Dynamics
73	Switch Fuse Unit (LT)	SIEMENS / EME / L&T / BCH / ABB / ALSTOM / GE
74	Motor (Spring Charging)	Ralliwolf / Kulkarni Power Tools / FAL Industries
75	ZnO Surge Arrestor	REYCHEM (GEC) / OBLUM
76	LT Motors (415 V)	Alstom / BHEL / Crompton Greaves Ltd. / Kirloskar Electric Co. Ltd. / Siemens / Marathon Electric / ABB / Bharat Bijlee / Laxmi Hydraulics Ltd.
77	DC Motors	Alstom / BHEL / Crompton Greaves Ltd. / Kirloskar Electric Co. Ltd. / Siemens
78	MV Bus Duct	BHEL / REEP / Power Gear
79	Relay Control Panel (PCR)	ABB / Areva / BHEL
80	Energy Meter (0.2s accuracy class) MEAA meters as per CEA norms	L&T / ABB/ Konzerv (subject to availability of type test TC)
81	Relay Test Kit	Megger (Josts Engg Co. Ltd, Pune) Doble / Omicron Electronics Asia Ltd., Hongkong / Scope, Pune / Meggar (AVO Pulsar) / PROGRAMMA ELECTRONIKA, SWEDEN
82	Auxiliary / Tripping Relays	ABB / Areva Ltd.,
83	Recorder	Yokogawa / Chino Laxsons, Eurotherm Del
84	Transducer	Automatic Electric Ltd. / Southern Transducers, Chennai / Rishabh, Nasik/ABB
85	HRC Fuses / Semiconductor fuse / Link / Fuse Fittings (HT)	Siemens / Kaycee / L&T / Indo Asian Fuse Gear / Copper Bussman
86	Test Link Block	IMP Powers / ENKAY
87	Control Panel / Desk (PCR)	BHEL Bhopal / Pyrotech Control / Rittal India
88	PLUG In RELAY	OEN / JYOTI / AREVA / ABB
89	Solid State Meters/Trivector Meters	Enercon / L&T/ ABB / BHEL
90	Vacuum Interrupters (HT SWGR)	BEL
91	Instrument Transformers (HT SWGR)	SILKANS / PRAGATI / PRAYOG
92	Current Transformer (HT SWGR)	SILKANS / PRAGATI / PRAYOG
93	Control Transformers (HT SWGR)	Quantum/SILKAANS/PRAGATI/PRAYOG/CANDS
94	Limit Switches / Auxilary Switches	Kaycee / Siemens
95	Breaker Control Switches	SALZER / SETON / AREVA / KAYCEE / RECOM
96	Discrepancy Control Switches	ABB / Control Dynamics

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97	Switch Fuse Unit (LT)	SIEMENS / EME / L&T / BCH / ABB / ALSTOM / GE
98	Motor (Spring Charging)	Ralliwolf / Kulkarni Power Tools / FAL Industries
99	ZnO Surge Arrestor	REYCHEM (GEC) / OBLUM

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C&I		
1	RTD & Thermocouples	Pyro Electric Instruments Goa Pvt. Ltd.
		General Instruments Consortium, Mumbai
		Detrive, Mumbai
		Temsens Instruments(I) Pvt. Ltd, Udaipu
2	Smart Electronic Transmitters (Pressure, Diff. Pressure)	Emerson Process Management (I) Ltd
		Fuji, Japan
		Yokogawa, Japan/ Yokogawa India
		ABB, Germany / Faridabad
3	Displacer Type Level transmitter	Honeywell, USA / Pune
		Chemtrol MIL
		Dresser, Coimbtore
		V-Automat, Delhi
4	Level Transmitters (Displacement Type)	Eckardt, Germany
		Dresser Masonielan, France (Dresser valves India Ltd. Coimbatore)
		Chemtrols, Mumbai (Eckardt, Germany)
		Eckardt, Germany
5	Level Transmitters (Ultrasonic Type)	Endress+Hauser, Germany/India
		Krohne, France
		Pepperl+Fuchs, Germany/India
		Vega, Germany
		KAB Instruments Ltd.
6	Radar Type Level Transmitters	Siemens Milltronics
		Endress & Hauser
		SBEM
		Emerson
		AmetekeDrexelbrok (Chemtrols)
7	Temperature Transmitters	Emerson Process (Formerly Fisher Rosemount), USA/Daman
		ABB, Germany / Faridabad
		Fuji, Japan
		Honeywell, USA / Pune
		Yokogawa, Japan/ Yokogawa India
8	Magnetic Level Switches	Moore, USA
		Levcon Instruments Pvt. Ltd., Kolkata
		V.Automat, New Delhi
		Asian Industrial Valves, Chennai
9	Level Switches Conductivity Type	Bharat Heavy Electricals ltd.
		Yarway, USA
		Levelstate, UK
		Solarton, UK (presently called as MOBREY)
		Chemtrol
		Level State (Hitech Systems)
		Mobrey
10	Flow Switches	Switzer, Chennai
		Kronhe Marshall
		General Instruments Mumbai

Sl No	Item	TENDER-45876/AMENDMENT-7/03-Oct-2017 02:48:54 PM Approved Vendor
		Chemtrol
11	Bypass Rotameter	IEPL, Hyderabad Placka Instruments India Pvt. Ltd., Chennai TRAC, Hyderabad Eureka, Pune
12	Rotameter	Instrumentation Engineers Pvt. Ltd. Sigma Instruments Co. Eureka Industrial Eqpt. Pvt. Ltd. Telace Equipment Pvt. Ltd.
13	Flow integrator (Electronic type)	ABB, Germany / Faridabad Masibus, Gandhinagar Yokogawa, Japan/ Yokogawa India Lekktrotek, Pune Emerson Endress & Hauser Forbes Marshall
14	Gauges (Pressure, Diff. Pressure)	A N Instruments Pvt. Ltd., Kolkata General Instruments Consortium, Goa/ Mumbai Goa Thermostatic Instruments, Goa Forbes Marshall Ltd., Hyderabad Waaree Industries, Mumbai H.Guru Instruments (South India), Bangalore Wika Instruments India Pvt. Ltd., Pune Goa Instruments Pvt. Ltd., Monometer, Mumbai Bells Controls Ltd., Kolkata Switzer Instruments Ltd., Chennai Wika Alexander Wiegand GMBH&Co., Germany Budenburg Guage Co. Ltd Instrumentation Pvt. Ltd., Bangalore Indosonic Instrument, Mumbai Precision Ashcroft
15	Temperature Gauge	Goa Thermostatic Instruments, Goa General Instruments Consortium, A.N. Instruments Pvt. Ltd., Kolkata H. Guru Instruments (South India), Bangalore Forbes Marshall, Hyderabad WIKI Instruments India Pvt. Ltd., Pune Waree, Dadra Goa Instruments Pvt. Ltd., Bells Controls Ltd., Kolkata Switzer Instruments Ltd., Chennai Wika Alexander Wiegand GMBH&Co., Germany Budenburg Guage Co. Ltd. Indosonic Instrument, Mumbai Indross Industries Ltd., Ghaziabad

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16	Switches (Pressure, Diff. Pressure)	Switzer Instruments Company, Chennai
		SOR Inc., USA
		Pyroelectric, Goa
		Dresser Industries Inc, USA
		Regulateurs Georgin, France
		Delta Controls Ltd., U.K.
		KDG Instruments Ltd. U.K.
		Ashcroft
		Dwyer, USA
		General Instruments Consortium
17	Temperature Switch	Indfoss Industries Ltd., Ghaziabad
		Switzer Instruments Company, Chennai
		General Instruments Consortium, Mumbai
		SOR Inc., USA
		Pyroelectric, Goa
		Dresser Industries Inc, USA
		Regulateurs Georgin, France
		Delta Controls Ltd., U.K.
		KDG Instruments Ltd. U.K.
18	Air Filter Regulator	Placka, Chennai
		Shavo Norgren, India
19	Mass Flow Meter (Corrolious Principle)	Emerson Process Management (I) Ltd
		ABB
		Yokogawa
		Endress+ Haueser
		GE Sensing & Inspection Technologies
		Forbes Marshall
20	I/P Converter	Eckhardt, Germany
		MTL, Chennai
		ABB
		Watson Smith (presently Norgren)
		Emerson Process Mgmt Asia Pacific Ltd.
		Moore Controls
21	Flow Elements	Instrumentation Ltd.
		Micro Precision Products
		Engineering Specialities Pvt. Ltd.
		General Instruments
22	Level gauges (Float Type)	SB Electro
		Sigma
		V Automat
		Levcon
		Chemtrols
		Asian Industrial valves
23	ORP Transmitters	Forbes Marshall
24	Density Meter (Nucleonic type)	Endress + Hauser
		Thermo Measure Tech.
		Chemtrol (Thermo Fisher)

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25	Density Meter (Non- Nucleonic type)	Endress + Hauser Thermo Measure Tech. Chemtrol (Thermo Fisher)
26	Solid Mass Flow Meter	Siemens Milltronics Chemtrol (Thermo Fisher) Siemens Instruments, Canada
27	Pull Cord Switch	Jayashree Electrodevices Pvt. Ltd. A.G. System Controls, Mumbai
28	Belt Sway Switch	Jayashree Electrodevices Pvt. Ltd. A.G. System Controls, Mumbai
29	Zero Speed Switch	A.G. Electronics Jayashree Electrodevices Pvt. Ltd.
30	Proximity switch	AW Jayashree Electrodevices Pvt. Ltd.
31	Level Switch (RF Type)	EIP Enviro Level Controls
	<u>DCS, HMI, MONITORING AND PLC SYSTEMS:</u>	
32	DDCMIS	ABB. Yokogawa Siemens. BHEL Emerson Process Management MHI
33	PLC	Allen Bradley. Schneider Rockwell GE Fanuc
34	Master Slave Clock	Symmetricom Inc., USA Hopf, Germany Hathway, USA Sertel Electronics, Chennai Advance Micronic
35	Dot Matrix Printer	HP / Epson / Wipro / TVS / Samsung
36	Laser & Colour Inkjet Printers	HP / Epson / Canon / IBM / Xerox / Samsung
37	Computers for Operator / Engineer / History Station, Shift Supervisor, Storian, Soft Link station for interfacing with other systems,	IBM Dell HP/Compaq
38	TFT Monitor	LG / Samsung / HP / Compaq / IBM / Dell
39	Vibration Monitoring System & Turbo-Supervisory Instruments	Rockwell Automation, USA Bentley Nevada, USA / India Shinkawa, Japan / Forbes Marshall, Vibrometer, Switzerland
		Barco Belgium / BARCO, India Plam, USA / Pyrotech, India

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40	Large Video Screens	Christie, USA / Christie, India Synelec Delta, Thailand / Delta Power Systems, India
41	HART Communicator	Honeywell, USA/Pune Emerson Process (Formerly Fisher Rosemount), USA / Daman Yokogawa, Japan / Yokogawa, India Meriam, USA / Chemtrols, Mumbai ABB, Germany / India Fuji, Japan
42	HART Management System	Pepperl+Fuchs, Germany / India MTL, UK / India Emerson Process, USA / Daman
43	Alarm Annunciation system	Procon, Chennai I I C, Hyderabad Minilec, Pune IIC, Mumbai PIRIE, Mumbai PECON, Vadodara Positronics
44	RMCMS (Rotating Machine Condition Monitoring System)	Vibrotech (M/s Megitt India Pvt. Ltd.) M/s SKF India Ltd.
45	Acoustic Pyrometer	Bonnenberg + Drescher GmbH, Germany
46	Acoustic Steam Leak Detection system (ASLD)	Hi-Tech System & Services Ltd, New Delhi (AMI make) Sartech Intl, Chennai (Instrotech make Inspecta FFT
47	EPABX System	Siemens BPL
	Furnace TV Camera System	Hitech System & Services Ltd. (M/s Lenox Instrument Company Inc., USA
	<u>ELECTRICAL & SECONDARY INSTRUMENTS:</u>	
48	Digital Indicator	ABB, Germany / Faridabad Massibus, Gandhinagar Pyrotech, Udaipur Lektrotek, Pune Gossen / Camille Bauer / Metrawatt Yokogawa, Japan / India Siemens
49	Bargraph Indicators	ABB, Germany / Faridabad Massibus, Gandhinagar Pyrotech, Udaipur Lektrotek, Pune Gossen / Camille Bauer / Metrawatt M-system, Japan (Chino Laxsons Daman) Siemens
		Page 1145 of 1287 Eurotherm, UK

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50	Pen, Point and Chartless Recorders	Tata Honeywell Yokogawa, Japan (Yokogawa, India) Chino (Laxson), Japan ABB, UK / Germany Fuji Electric, Japan
51	Transducers	Seimens Automatic Electric Ltd., Mumbai Pyrotech, Udaipur Southern Transducers, Chennai Accord, Pune Meco, Mumbai ABB SITU, Mumbai Rishabh ADEPT, Pune
52	Electrical Analog (Panel) Meters	Automatic Electric Ltd., Mumbai Meco, Mumbai Rishabh, Nasik
53	Selector Switches and Control Switches	Kaycee Alstom L & T Siemens
54	Mosaic Analog (Moving Coil) Indicators	Gossen, Germany Weigel, Germany
55	Mosaic Digital Indicators	Gossen, Germany Weigel, Germany
56	Interposing relays for Command Output to MCC	Jyoti H&B Alstom Elasta OEN Siemens ABB
57	Relays / Aux. Contactors	Telemecanique & ctrl's ABB Siemens GEC – Alstom L & T
58	Limit Switches	Bhartiya Cutler & Hammer, Faridabad
59	Miniaturized push buttons / ILPB (24x48mm) mosaic grid compatible	Siemens TEW, germany (Old Name Subklew)
	<u>Control Desks & Panels:</u>	
60	Unit Control Panels (UCP)/ Electrical Control Panel (ECP)/ Control Desk (Mosaic Grid Based)	BHEL EDN Pyro Tech, Udaipur Instrumentation Ltd. Kota Khoday Control Systems, Bangalore

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	(Mosaic Grid Based)	Chemin Controls, Pondicherry
61	CRT Desk / Operator Desk	Pyro Tech, Udaipur Instrumentation Ltd. Kota Khoday Control Systems, Bangalore Chemin Controls, Pondicherry
62	Mosaic Grid/ Mosaic Tiles & Other Mosaic items	Symo, Switzerland TEW, Germany (old name SubKlew) Pyrotech
63	Local Panels / Distribution boards	Control & Schematics Pyrotech Rittal L&T
64	Terminal Blocks	Elmex Phoenix WAGO
	<u>Analysers:</u>	
65	SWAS Analysers	Polymetron / Zellwegger – Analyticals ABB Orion, USA Rosemount Analytical-Chempure, Hach Ultra France, Hach USA Yokogawa Ametek Forbes Marshall Emerson
66	SWAS (Steam and Water Analysis system) Panels	ABB Kent, U.K. ABB Ltd. Faridabad Forbes Marshal Emerson Process Management Instrumentation Ltd., Kota Yokogawa
67	CO Analyser (in situ type)	Ametek, USA / Singapore Codel International Ltd. UK Land Combustion UK
68	Oxygen in Flue Gas Analyser (Zirconia Probe type)	Ametek, USA / Singapore Land Instruments, UK Emerson Process Management (I) Ltd Yokogawa, Japan Enotech, Germany ABB, UK Teledyne, USA Fuji (AIC) Durr, Germany

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69	Smoke Density Analyser / Particulate Emission Analyser / Opacity Analyser	Codel, UK
		Land Combustion UK
		Emerson
		ABB
		Fuji (AIC)
70	NOX / SO2 Analyser (In situ)	Codel, UK
		Forbes Marshall
		Land Combustion, UK
71	Ozone Analyser	BMT Messtechnik, GmbH
72	Residual Ozone Analyser	ECO Sensors / Kauffmann Umwittechnik .ek
73	Ozone Leak detector	OTTPL
<u>Control Valves / Actuators / Solenoid Valves:</u>		
74	Electrical Actuators for Regulating & open / close valves	Rotork Control (India) Ltd.,
		Auma (India) Ltd.,
		Limitorque India Ltd.
75	Pneumatic Actuators-Regulating & open / close	Instrumentation Ltd., Palghat
		Keltron Controls, Kerala
76	SH/RH Spray Control Valves	MIL Controls Ltd.
	SH/RH Spray Block Valves	Instrumentation Ltd. Palghat
	Feed Control Valves	Fisher Sanmar Ltd.
		Control Component INC., USA
		Hora (Holter Regelarmaturen GmbH & Co.)
77	LFO/HFO Control, and Trip Valves, Flow Control, Pressure control, Temp. control, and Burner Trip Valves, Ball Valves	MIL Controls Ltd.
		Instrumentation Ltd. Palghat
		Fouress Engg (I) Ltd, Bangalore
		SAMSON Controls , Pune
78	Soot Blower Pressure Reducing Valve	MIL Controls Ltd.
		Instrumentation Ltd., Palghat
		Fisher Sanmar Ltd.
		Control Component INC., USA
		Hora (Holter Regelarmaturen GmbH & Co.)
79	APRDS Control Valves	Instrumentation Ltd.
		Control Component INC., USA
		Hora (Holter Regelarmaturen GmbH & Co.)
80	Control valves - Non Critical	DeZURIK Copes Vulcan Ltd., U.K.
		Control Component INC., USA
		Fisher Sanmar Limited
		Instrumentation Ltd

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80	Control valves- Non Critical	MIL Control Ltd. Fisher Xomos Sanmar ltd. Hora (Holter Regelarmaturen GmbH & Co.)
81	Solenoid Valve	ASCO, Chennai Rotex Automation Ltd., Gujrat Avcon Controls, Mumbai
82	HP/LP Bypass Valves	Bopp & Reuther SR GmbH Control Components Inc (CCI)
83	Electro-hydraulic Actuator	Leonardo Automation (India) Pvt. Ltd.
	Erection Hardwares:	
84	Local Instrument Rack (LIR) and Local Instrument enclosures (LIE)	Pyrotech, Udaipur Instrumentation Ltd., Kota Electronics Corporation of India Ltd., Hyderabad Chemin Controls, Pondicherry Prammen Industries
85	Instrument valves	Excel Hydro pneumatics Pvt. Ltd., Mumbai BHEL Metpress Engineering Works, Kolkata Baldota valve & fitting Co. Pvt. Ltd., Mumbai Aura Inc., New Delhi Instrumentation Ltd. Palghat Precision Engg. Industries, Mumbai Vikas Industrial Products, New Delhi
86	Valve Manifolds	Excel Hydro pneumatics Pvt. Ltd., Mumbai Metpress Engineering Works, Kolkata Baldota valve & fitting Co. Pvt. Ltd., Mumbai Aura Inc., New Delhi Precision Engg. Industries, Mumbai HP Valves and Fittings, Chennai
87	Compression Fittings / Socket Weld Fittings	Swagelock, USA Astec Valves & Fittings Pvt. Ltd. Met-Lok Hydro Pneumatics Pvt. Ltd.
88	Condensate Pots	Excel Hydro-pneumatics Pvt. Ltd., Mumbai Microprecision, Faridabad Instrumentation Ltd. Palghat Metpress Engineering Works, Kolkata Baldota Valves & Fittings Co. Pvt. Ltd., Mumbai

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		Precision Engg. Industries, Mumbai
89	Impulse & Sample Pipings	TPS Technitube Rohren Werke GMBH, Germany
		Maharashtra Seamless Ltd.
		BHEL
		Choksi Tube Company Ltd., India
		Indian Seamless Metal Tubes Ltd., India
		Mannesmann AG, Germany
		Touvay and Cauvin Gulf EC, Dubai
		Jindal Saw Pipes Ltd., India
		Sumitomo Corporation, Japan / Kawasaki
		Ratnamani Metals & Tubes Ltd., Ahmedabad
90	Junction Box (FRP)	Devi Polymers, Chennai
		Suchitra Industries, Bangalore
		Rittal
		Pyrotech
		L&T
		Hensel Electric India Pvt. Ltd., Sriperumbudur
91	Air Cylinder	Veljan Hydrair, Hyderabad
		Nucon Industries, Hyderabad
		Precision Engg. (PREAC), Banagalore
		ASCO, Chennai
	Cables:	
92	Control Cables	Delton Cables, Faridabad
		Universal Cables, Satna
		Nicco Cable, Kolkata
		Polycab, Daman
		Gayolene, Mumbai
		Reliance Engrs, Bangalore
		Cords Cables, Rajasthan
		Paramount Cables, Alwar
		Thermocables, Bangalore,
		KEI Industries Ltd., Chennai

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93	Instrumentation Cable	Delton Cables, Faridabad
		Universal Cables, Satna
		Nicco Cable, Kolkata
		Polycab, Daman
		Gayolene, Mumbai
		Reliance Engrs, Bangalore
		Cords Cables, Rajasthan
		Paramount Cables, Alwar
		Thermocables, Bangalore / Hyderabad
		KEI Industries Ltd., Chennai
		Cable Corprn of (I) Ltd., Chennai
		RPG Cables Ltd., Chennai
		Fort Gloster Industries Ltd. Kolkata
		Deco Cables, Delhi
		Krishna Cables, Gwalior
		Thermapads (P) Ltd
		Elkay Telelinks Ltd.
		Incab Industries Ltd
		Torrent Cable Ltd.
94	Compensating Cables	Delton Cable
		Toshniwal, Mumbai
		Reliance, Bangalore
		Lapp India, Mumbai/ Bangalore
		Cords Cables, Rajasthan
		Paramount Cable
95	Special cables (PTFE /FEP Insulated Cables)	Toshniwal cable
		Reliance Cables
		Lapp India, Mumbai
		Paramount Cables
		Finolex, Pune
96	Power Cables (LT)	Delton Cables, Faridabad
		Universal Cables, Satna
		Nicco Cable, Kolkata
		Cords Cables, Rajasthan
		Fortglaster Industries
		Incab, Pune
		CCIL, Bangalore
		KEI Industries Ltd., Chennai
		Polycab, Daman
		Paramount Cables, Alwar
	UPS / DC System:	
97	UPS with ACDB	HI-REL Electronics
		Emerson Network (Formerly Tata liebert)
		DB Power Electronics
		Caldyne, Kolkata

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98	24 VDC Battery Charger with DCDB	Amararaja, Tirupati
		Chhabi Electricals, Jalgaon
		HBL Power Systems, Hyderabad
		Mass Tech Controls

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99	Battery (Tubular/Plante)	Exide, Kolkata
		HBL Nife, Hyderabad
		Union Battery (BUI Pune)
100	Battery (Nickel-Cadmium)	HBL Power Systems, Hyderabad
		AMCO, Bangalore