

Chapter - 12 : LIST OF APPROVED MAKE OF COMPONENTS

The following are the major list of approved vendor:

A. MECHANICAL

ARC Valve	SCHROEDAHN-ARAPP / SCHROEDER VALVES GMBH & CO. KG, GERMANY
Turbine	SIEMENS MAKE ONLY
Alternator	TDPS Only .
BLOW DOWN VALVE	LEVCON/BHEL/HOPKINSON
BOILER FEED PUMPS	KSB only
BUTTERFLY VALVES	KSB/ FOURESS / DELVAL FLOW CONTROLS / INTERVALVE / WEIR BDK VALVES
CBD & IBD VALVES	BHEL / HOPKINSON / INDITECH VALVES
CENTRIFUGAL PUMPS	KSB PUMPS / KBL
CONTROL VAVES	KSB MIL
CL.900 & ABOVE	KSB/ WEIR BDK VALVES/STEEL STRONG
CL.600 & BELOW	KSB/ WEIR BDK VALVES/STEEL STRONG
GATE, GLOBE & CHECK VALVES (HIGH PRESSURE), CL.900 & ABOVE	KSB/ WEIR BDK VALVES/STEEL STRONG
GATE, GLOBE & CHECK VALVES (LOW PRESSURE), CL.600 & BELOW / CL.800	KSB/ WEIR BDK VALVES/STEEL STRONG
COUPLINGS	EUROFLEX / EAGLE POONAWALA /Rathi/ Fenner
DEAERATOR	GEA / GEI GODAVARI / BHEL / THERMAX / RAVI INDUSTRIES
DESUPERHEATERS	THERMAX / EMERSON / MIL/ INDITECH /
ELECTROSTATIC PRECIPITATORS (ESP)	THERMAX / BHEL
GATE, GLOBE & CHECK VALVE CI 600 AND ABOVE	KSB/ WEIR BDK VALVES/STEEL STRONG
GATE, GLOBE & CHECK VALVES	KSB/ WEIR BDK VALVES/STEEL STRONG
GEARBOXES	BONFIGLIOLI / PREMIUM / DYNAMICOIL./ ELECON / FMG
HP & LP DOSING PUMPS	MILTON ROY / METAPOW / ENPRO/ POSITIVE METERING / METACHEM / HEIDELBERG
LP, HP DOSING SYSTEM, EXCLUDING PUMPS	MILTON ROY / METAPOW / ENPRO/ POSITIVE METERING / METACHEM / HEIDELBERG
ID, CR, FD AND SA FANS	BHEL / BATLIBOI / ANDREW YULE
INSULATION	LLOYDS / MINWOOL / GOENKA ROCKWOOL /

(SUPPLY & APPLICATION)	MURUGAPPA / RAJA INSULATIONS & REFRACTORIES LTD.
LRSB SOOT BLOWERS	BHEL / HOPKINSON / SITSON
MECHANICAL SEALS	BURGMANN / FLOWSERVE SANMAR
METALLIC BELLOWS	LONE STAR / MB METALLIC BELLOWS PVT. LTD. / SUR INDUSTRIES PRIVATE LTD. / PRECISE ENGINEERS) / BELLOWS AND HOUSES
NON IBR VALVES	BDK / L&T / KSB / KIRLOSKAR
NON-METALLIC BELLOWS	KELD ELLENTOFT PVT LTD. /
NRV	BHEL / HOPKINSON
PUMPS	KSB/ KBL/ SULZUR
REFRACTORY	SK GUPTA / CASTWEL IND / SHARDAA CERAMIC / CALDERYS / PARSHURAM / ACC / KFS / FURNACE FABRICA
RELIEF VALVES	BHEL / L&T/ FAINGER LESSER
SAFETY VALVES	BHEL / TYCO SANMAR / FAINGER LESSER
ROTARY SOOT BLOWERS	HOPKINSON / BHEL / SITSON
SAFETY SWITCHES	AG / JAYSHREE
SILENCERS	THERMAX / G.K. SONS / ANUPAM ENGINEERING / INDIRA INDUSTRIES / P.R. ACOUSTICAL & ENGG. WORKS
SPRING HANGERS (CONSTANT & VARIABLE LOAD SPRING HANGERS)	BHEL / BERGEN PIPE SUPPORTS (INDIA) PVT. LTD. / LISEGA / PIPE HANGERS & SUPPORTS (P) LIMITED / SPRING SUPPORTS, HOWRAH / SARATHI/ MYRICKS / L&T
STEAM TRAPS	ARMSTRONG INTERNATIONAL / PENNANT ENGINEERING PVT. LTD. / UNIKLINGER LTD.
STRAINERS	ABHIRAMI ENGINEERING / PERFECT SERVICES (MADRAS) / PROCEDYNE ENGINEERS / SUNGOV ENGINEERING PVT. LTD. / TRIVENI EQUIPMENTS / GUJARAT OTOFILT / RIFOX / BHATIA / STRAINWELL
VALVE ACTUATORS (ELECTRICALLY OPERATED)	AUMA INDIA LTD.

ELECTRICAL

AIR CIRCUIT BREAKERS	L&T
11 KV VCB	ABB.
ANALOG METERS	AE / IMP / RISHAB
ANNUNCIATORS	IEC / MINILEC / PROCON
A. C. VFD	ABB /YASAKWA
CABLE TRAY	ARUN / INDIANA / OBO BETTERMAN / PATNI / PEARL

	/ PENTAX FERRO / PREMIER / RUKMANI / SILVERLINE / UCIC / VISHWA
CAPACITOR BANKS	CGL / L&T / SIEMENS
CAST ALUMINIUM JUNCTION BOX	MATADOR / SCG / SHRENIK & COMPANY / VAISHNO
DC MOTORS	IEC / KEC
DIGITAL METERS	AE / ENERCON / L&T / SIEMENS
INSTRUMENT TRANSFORMERS (11KV & 415V)	AE / INTRANS / KAPPA / KALPA / PRAGATI / PRAYOG SILKANS / NEWTEK
INSULATORS	IEC / JAYASHREE / MODERN / WS
LOCAL PUSH BUTTON STATION	TECHNIC / L & T / SIEMENS / SCHINDER / B C H / VAISHNO
LT MOTOR	ABB / SIEMENS / CGL/Bharat Bijlee
LT PANELS	ABB / L&T / SIEMENS
LT PVC CABLE	CCI / KEI / POLYCAB/HAWELLS
LT XLPE CABLE	CCI / KEI / POLYCAB /HAWELLS
LT SWITCHGEAR COMPONENTS	L&T / SIEMENS
MASTER TRIP & AUXILIARY RELAYS	ABB / ALSTOM T&D / / SCHINDER
MCB DISTRIBUTION BOARDS & MCBS	L&T / MDS / SIEMENS / DATAR / CPRI APPROVED
MICROPROCESSOR BASED MOTOR OVERLOAD RELAYS	AREVA / ABB
MOTOR CONTROL CENTER *	VEE CONTROLS / SPENCER SYSTEMS / DS CONTROL / IDEA ENGINEERS
MOTOR PROTECTION RELAYS (NUMERIC / MICROPROCESSOR BASED)	L&T / SIEMENS
PRESSURE GAUGES	WAREE / GIC / H. GURU
MCB DISTRIBUTION BOARDS, MCB AND ELCB	L&T / SIEMENS
MICROPROCESSOR BASED MOTOR OVERLOAD RELAY	L&T / SIEMENS
POWER & CONTROL CABLES	CCI / INCAB / NICCO / RPG / TORRENT / UNIVERSAL / FINOLEX
POWER QUALITY METERS	GE MULTILIN / L&T / ENERCON
Distribution Transformer 11/.433KV	Voltamp / Schneider
DG SET	CUMMINS ONLY .

**** Type test certificates for temperature rise and short circuit having carried out within the last three years shall be submitted, in case, any alternate make is selected by the Bidder.**

INSTRUMENTATION

AIR FILTER REGULATORS	SHAVO-NORGON / PLACKA INSTRUMENTS AND CONTROLS /
ANALYSERS	ABB / ROSEMOUNT / YOKOGAWA
CONTROL VALVES	MIL KSB with smart positioner
DESUPERHEATERS	ABB INTROL / FORBS MARSHALL/ INDITECH
DIFFERENTIAL PRESSURE TRANSMITTER	ROSEMOUNT / YOKOGAWA / SIEMENS / ABB
DRAFT GAUGES	SWITZER / BELLS
ELECTRONIC BAR GRAPH INDICATOR	MASSIBUS / YOKOGAWA
FLOW ELEMENTS (NOZZLE / ORIFICE / VENTURI)	DELTA ENGINEERING / MICRO PRECISION / HYDRO PNEUMATICS / STAR MECH CONTROLS / / GENERAL INSTRUMENTS
HART COMMUNICATOR	EMERSON
INSTRUMENT CABLES	CORDS CABLE / DELTON / ICON CABLES LTD / THERMOCABLES / TCL CABLES / GENERAL INSTRUMENTS / SBEE CABLES / ELKAY TELELINKS
IP CONVERTERS	BELLS / ROSEMOUNT / JNM / ABB
JUMBO DISPLAY INDICATING METERS	ACCSYS ELECTRONICS / MASSIBUS / SUN INDUSTRIAL AUTOMATION
LEVEL GAUGES	PUNE TECHTROL PVT. LTD. / CHEMTROLS ENGINEERS PVT. LTD. / NIVO CONTROLS / SBEM / GIC / LEVCON / HI TECH (FOR DRUM LEVEL GAUGES) / V-AUTOMAT (DOSING SYSTEM) / TECHNOMATIC (DOSING SYSTEM)
LEVEL SWITCHES	CHEMTROL / LEVCON / V-AUTOMAT / PUNE TECHTROL / SB ELECTROMECHANICAL & WIKA
OXYGEN ANALYSERS	ABB / EMERSON / HONEYWELL / YOKOGAWA
POWER CYLINDERS	KELTRON / R.K. CONTROLS / ROTEX / SCHARDER / BELLS CONTROL / IL
PRESSURE GAUGES	WAAREE / GENERAL INSTRUMENT CONSORTIUM / WIKA / PYRO - GOA THERMOSTATIC
PRESSURE SWITCHES	WAREE / SWITZER / DANFOSS / INFOSS / VERMA / GENERAL INSTRUMENT CONSORTIUM / SANMUR
PRESSURE TRANSMITTERS	SIEMENS/ ABB / EMERSON
RTD AND THERMO COUPLES	GENERAL INSTRUMENTS CONSORTIUM / PYROELECTRIC

	/ TEMPSSEN INSTRUMENT / WAAREE INSTRUMENTS
SOLENOID VALVES	ASCO / ROTEX / SMC PNEUMATICS / IMI NORGRN HERION
TEMPERATURE GAUGES	GIC / BELLS / WAAREE INSTRUMENTS / PYRO ELECTRIC INSTRUMENTS / WAREE
TEMPERATURE SWITCHES	WAREE / DANFOSS / GENERAL INSTRUMENT CONSORTIUM / SANMUR
Brix Analyser	Birth Hold Make only