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ANNEXURE-6 TO PY55223

SUB-VENDOR LIST FOR LT SWITCHBOARDS

PROJECT	40MW CDQ WASTE HEAT RECOVERY CO-GENERATION POWER PLANT
CUSTOMER	M/S TATA STEEL LIMITED, JAMSHEDPUR
CONSULTANT	TATA CONSULTING ENGINEERS, KOLKATA

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Sub vendors for the LT switchgear components shall be as per the following list:

SN	Component	Make
1	CONTROL TRANSFORMERS	INDUSREE / ADROIT / KALPA / KAPPA / ANU ELECTRICALS
2	AIR CIRCUIT BREAKER OF RATING <= 440 VOLT OF ANY CURRENT RATING	L&T / SIEMENS / SCHNEIDER / GE INDIA / ABB
3	NUMERICAL RELAY	L&T / SIEMENS / SCHNEIDER / GE INDIA / ABB
4	ELECTRONIC MOTOR PROTECTION RELAY HAVING OVERLOAD Protection up to 15KW	SAMWHA / LG
5	ELECTRONIC MOTOR PROTECTION RELAY Relay HAVING OVERLOAD AND EARTH FAULT PROTECTION, for >15kW and UP TO 30KW	SAMWHA / LG
6	ELECTRONIC MOTOR PROTECTION RELAY HAVING OVERLOAD EARTH FAULT, UNBALANCE & LOCK ROTOR PROTECTION, ABOVE 30KW & UP TO 110KW.	SAMWHA / LG
7	BIMETALLIC REALY	SCHREIDER-TELEMECHANIQUE / ABB / SIEMENS / L&T
8	ELECTROMAGNETIC OVERLOAD RELAY	KILBURN / BCH
9	SINGLE PHASING PREVENTOR	L&T / MINILEC / SIEMENS
10	MULTI-FUNCTION DIGITAL PANEL METER	CONSERVE / PML / SATEC / SEMS
11	ANALOG INDICATING PANEL METER	AEI / IMP / MICO / RISHAB
12	SEMICONDUCTOR FUSE	FERRAZ / BUSSMAN-COPPER
13	415V ISOLATOR	SIEMENS / L & T / ALSTOM / ABB
14	MCCB/MPCB	L&T / SIEMENS / GE INDIA / ABB
15	MCCB/MPCB (BOTH WITH POSITIVE ISOLATION FEATURE ONLY)	GE INDIA / ABB / L&T / SIEMENS / SCHNEIDER-TELEMECHANIQUE
16	MCB	MDS / GE INDIA / STANDARD / SIEMENS / L&T / SCHNEIDER-TELEMECHANIQUE / ABB
17	AC POWER CONTACTOR	SIEMENS / L&T / SCHNEIDER / ABB
18	DC POWER CONTACTOR	BCH / TM (Telemecanique) / BHEL / SIEMENS
19	PUSH BUTTONS	SIEMENS / L&T / BCH / SCHNEIDER-TELEMECHANIQUE
20	LT FUSES (HRC)	SIEMENS / L&T / GE India / ABB / SCHREIDER-TELEMECHANIQUE / BUSSMAN
21	TIMER	SIEMENS / BCH / L&T / SCHREIDER-TELEMECHANIQUE / ALSTOM
22	CONTROL SWITCHES	SIEMENS / KAYCEE / L&T / ALSTOM / SCHREIDER-TELEMECHANIQUE / SC&S / STANDARD / HHE
23	LT CT/PT	KAPPA / KALPA/ INDUSREE
24	TERMINAL BLOCK (POWER, CONTROL, & INSTRUMENT)	WAGO / PHOENIX / SCHNEIDER-TELEMECHANIQUE/ CONNECTWELL / ELMEX

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COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.	25	VOLTAGE / POWER / CURRENT / FREQUENCY / ENERGY TRANSDUCER	ABB / AEP / SIEMENS / ALSTOM
	26	HOOTER /BUZZER /BELL	GETCO / KHERAJ / EDISION / KAKKU
	27	SOLID STATE ANNOUNCIATOR	APLAB / L&T / PROCON / CONTROL & DYNAMICS / MINILEC / ELEMECH
	28	LED LAMP (Panel mounted indication lamp only)	BINAY / SCHREIDER-TELEMECHANIQUE / GE INDIA / BCH
	29	BREAKER CONTROL SWITCH	ALSTOM / KAYCEE / SIEMENS
	30	HMI-PC	IBM / COMPAQ / DELL / HP
	31	NETWORK SWITCHES, ROUTERS (Managed / Unmanaged)	CISCO / D LINK / HIRSCHMANN
	NOTES: - Vendor shall strictly follow the list of makes for equipments as specified above. - For components other than the above, vendor shall submit past track record for the proposed sub-vendors and obtain written approval from BHEL. - BHEL reserves the right to choose any particular make from the above list for Protection relays during order execution for overall system integration.		