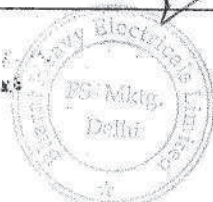


	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		SIEMENS, FRANCE / INDIA
26	THERMOCOUPLES, RTD & THERMOWELL	HERAUS SENSOR, GERMANY
	REFER NOTE -2	WISE CONTROL, KOREA
		TEMPSENS, UDAIPUR
		PYROELECTRIC, GOA
		DETRIV INSTRUMENTATION & ELECTRONICS LTD., MUMBAI
		MINCO, USA
		OKAZAKI CORPORATION, JAPAN
		YAMARI, SINGAPORE
		AB (SENSYCON), GERMANY
		EMERSON (ROSEMOUNT), GERMANY
		EMERSON (ROSEMOUNT), PAWANE
		THERMAL INSTRUMENTS (GIC), SAVANTWADI
		TECHNO INSTRUMENTS, AHMEDABAD
27	ULTRASONIC TYPE LEVEL TRANSMITTER	E&H, AURANGABAD/GERMANY
		EMERSON, PAWANE
		SIEMENS MILTRONICS, CANADA
28	ORIFICE PLATE ASSEMBLY	INSTRUMENTATION LIMITED, PALGHAT
		MICROPRECISION, FARIDABAD
		STARMECH, PUNE
		FLOW STAR, FARIDABAD
		SEIKO, AUSTRIA
		MINCO, GIC, GOA
		WISE CONTROL, KOREA
		TM TECHNOLOGY, ITALY
29	PRESSURE, DP GAUGE	BUDENBERG, UK
		ASHCROFT, USA/GERMANY/INDIA
		WIKA, GERMANY
		WISE CONTROL, KOREA
		NAGANO KEIKI, JAPAN
		H GURU SOUTH INDIA, BANGALORE
		A N INSTRUMENTS, KOLKATA
		GAUGE BOURDON (GIC), PANVEL



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		GOA THERMOSTATIC, GOA
		WIKA, PUNE
		BAUMER, VAPI
		ASHCROFT (MASS BRAND) GANDHINAGAR
		H GURU, RISHRA ? MUZAFFARPUR
		FORBES MARSHALL, HYDERABAD
30	LEVEL GAUGE (TRANSPARENT & REFLEX, TUBULAR TYPE)	NIHON KLINGAGE CO LTD., JAPAN
		BUNKABOKEI KOGYO CO. LTD., JAPAN
		TOKYO KEISO, JAPAN
		SAMIL INDUSTRIES INC. KOREA
		HITROL, KOREA
		LEVCON, KOLKATA
		SIGMA, MUMBAI
		SBEM, PUNE
		CHEMTROL, GOA
		ASIAN INDUSTRIAL VALVES, CHENNAI
		D K INSTRUMENTS, KOLKATA
		FLOW STAR, FARIDABAD
		V-AUTOMAT, NEW DELHI
		DEMPER KOGYO, JAPAN
		KUBLER, GERMANY
		WIKA, PUNE
		WARE, VAPI
		GAUGES BOURDON (GIC), PANVEL
		MAGNETROL, BELGIUM
		KHRONE, GERMANY
		PUNE TECHTROL, PUNE
		E & H, AURANGABAD
31	PRESS, DP, VACCUM SWITCH	SOR, USA
		DRESSOR (ASHCROFT) USA/GERMANY
		ITT BARTON, USA
		HERION, GERMANY
		BARKSDALE, GERMANY



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		SWITZER, CHENNAI
		TRAFAG, GURGAON
		INDFOS, GHAZIABAD
		DELTA CONTROL, UK
		GAUGES BOURDON (GIC), PANVEL
		ASHCROFT, GANDHINAGAR
32	TEMPERATURE SWITCH	SOR, USA
		DRESSOR (ASHCROFT)
		USA/GERMANY
		ITT BARTON, USA
		DELTA CONTROL, UK
		SWITZER, CHENNAI
		INDFOS, GHAZIABAD
		TRAFAG, GURGAON
		ASHCROFT, GANDHINAGAR
33	FLOW SWITCH	UNIVERSAL FLOR METER, USA
		SWITZER, CHENNAI
		LEVCON, KOLKATA
		DK INSTRUMENT, KOLKATA
		KHRONE MARSHAL, PUNE
		GAUGES BOURDON (GIC), PANVEL
		MAGNETROL, BELGIUM
		ASHCROFT, GERMANY
		AUXITROL, UK
		MERICOLD, USA
		DELTA CONTROL, UK
		MERIUM, USA
		GIC, PANVEL
34	CONDENSING POTS	INSTRUMENTATION LIMITED, PALGHAT
		MICROPRECISION, FARIDABAD
		WOOJIN, KOREA
		SAM IL, KOREA
		EXCEL HYDRO, MUMBAI
		FLOW TECH, CALCUTTA
		BALDOTA, MUMBAI
		PRECISION, MUMBAI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW)	
TECHNICAL SPECIFICATION FOR EPC PACKAGE		

		METPRESS, CALCUTTA
		HP VALVES AND FITTINGS, CHENNAI
		MAIN CONTRACTOR APPROVED SOURCES
35	ELECTRIC TO PNEUMATIC CONVERTER	IM NORGEN, INDIA
		FAIR CHILD, USA
		ABB, INDIA
36	CONDUITS LEAD COATED (FLEXIBLE)	PLLCA, GH\AZIABAD
37	INTELLIGENT BATTERY CHARGER 24 V DC & DCDB / BHMS	CHABBI ELECTRICALS, JALGAON
		ELTECH, GURGAON
		MASTECH, JALGAON
38	BATTERY HEALTH MONITORING SYSTEM	EMERSON, MUMBAI
		ELTCK SGS PVT LTD., GURUGAON
39	BATTERY (NI-CD)	AMCO SAFT, BANGALORE
		SAFT, FRANCE / SWEENEN
		HBL POWER, HYDERABAD
40	SOCKET WELD FITTINGS	MAIN CONTRACTOR APPROVED SOURCES
41	IMPULSE PIPE & TUBES	MAHARASHTRA SEAMLESS, RAIGARH
		SUMITOMO / KAWASAKI / NIPPON, JAPA
		TPS TECHNITUBE, GERMANY
		VELURIC & MANESSMANN, GERMANY
		BHEL, TRICHY
		TROUVAY AND CAUVIN, FRANCE
		ISMT, AHAMADNAGAR
		SANDVIK
42	COMPRESSION FITTINGS	HAMLET, ISRAIL
		PARKER, USA
		PRECISION, MUMBAI
		DK TECH, KOREA
		HY LOK, KOREA
		ASTECH MUMBAI
		HYDAIR (FLUID CONTROL), MUMBAI
		HP VALVES AND FITTINGS, CHENNAI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		EXCEL HYDRO, MUMBAI
		SWAGELOCK, USA
		PANAM, MUMBAI
43	INSTRUMENT VALVES	BHEL, TRICHY
		DK TECH, KOREA
		HAMLET, ISRAIL
		EXCEL HYDRO, MUMBAI
		INSTRUMENTATION LIMITED, PALGHAT
		SWAGELOCK, USA
		PARKER, USA
		HY LOK, KOREA
		HP VALVES AND FITTINGS, CHENNAI
		HYDAIR LONAVALA, LONAVALA
		BALDOTA, MUMBAI
44	VALVE MANIFOLDS	HAMLET, ISRAIL
		EXCEL HYDRO, MUMBAI
		SCHNEIDER, GERMANY
		HY LOK, KOREA
		DK TECH, KOREA
		ANDERSON GREENWOOD, USA
		ASTECH MUMBAI
		HP VALVES AND FITTINGS, CHENNAI
		HYD AIR, LONAVALA
		FLUID CONTROL, MUMBAI
		MICROPRECISION, FARIDABAD
		PARKER, USA
		SWAGELOCK, USA
		BALDOTA, MUMBAI
45	LOCAL INSTRUMENT ENCLOSURE / RACK	PYROTECH, UDAIPUR
		INSTRUMENTATION LIMITED, KOTA
		SAJAS ELECTRICAL, TRICHURAPALLI
		PRAMMEN, PUDDUKOTTAJ
		CHEMIN, PONDICHERY
46	INSTRUMENT CABLES	PARAMOUNT, KHUSKHERA
		POLYCAB, DAMAN
		DELTON, FARIDABAD

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW)	
TECHNICAL SPECIFICATION FOR EPC PACKAGE		

		KEI, BHIWADI
		ELKEY TELELINKS, FARIDABAD
		CORDS, BHIWADI
		CORDS, KAHARANI
		NICCO, KOLKATA
		TEW & C, USA
		HABIB CABLES, SWEEDEN
		KERPEN CABLES, GERMANY
		LAPP CABLES, GERMANY
		THERMO ELECTRA BV, NETHERLAND
		UNIVERSAL CABLE, SATNA
		THERMOCABLES, HYDERABAD
47	ELECTRICAL ACTUATOR	AUMA, GERMANY
		LIMLTORGE, USA
		ROTORQ, UK
		LIMLTORGE, FARIDABAD
		ROTORK, CHENNAI / BANGALORE
		NIPPON, JAPAN
		AUMA, BANGALORE
		HAROLD BACK, USA
		DREHMO, GERMANY
47 A	ELECTRICAL ACTUATOR FOR ID/FD/PA BLADE PITCH AND GUIDE VANE CONTROL	HAROLD BACK, USA
		SIPOS AKTRORLK GMBH, GERMANY
48	FLOW NOZLE ASSEMBLY	MICROPRECISION, FARIDABAD
		SEIKO, AUSTRIA
		TECHNOMATIC, ITALY
		INSTRUMENTATION LIMITED, PALGHAT
		STARMECH, PUNE
		WISE CONTROL, KOREA
49	HIGH TEMP. CABLE (PTFE/FEP)	HABIB CABLES, SWEEDEN
		LAPP CABLES, GERMANY
		KERPEN CABLES, GERMANY
		TEW & C, USA
		THERMO ELECTRA BV, NETHERLAND



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		HABIA CABLES, CHINA
		THERMOCABLES, HYDERABAD
50	FIBER OPTIC CABLE	HFCL, GOA
		R & M, SWITZERLAND
		AKSH FIBRE, BHIWADI
		FINOLEX, PUNE / GOA
		BIRLA ERICSON, REWA
		MOLEX, UK
		CORNING, USA
51	PNEUMATIC ACTUATOR (POWER CYLINDER E.G. FOR SADC)	DONG WOO VALVE CONTROL CO. LTD, KOREA
		SHIN HWA ENGINEERING CO. LTD., KOREA
		INSTRUMENTATION LIMITED, PALGHAT
		KELTON, COCHLN (ALLEPPY)
		SMC PNEUMATICS, NOIDA
		ROTEX, MUMBAI
52	LEVEL SWITCH CAPACITANCE TYPE	ENDRESS & HOUSER, AURANGABAD
		MAGNETROL, BELGIUM
		SBEM, PUNE
		PUNE TECHTROL, PUNE
		LEVCON, KOLKATA
53	TRANSDUCER	AE, MUMBAI
		SOUTHERN TRANSDUCER, CHENNAI
		ELSTER, MUMBAI
		CAMILLE BAUER, GERMANY
		METRAWAT, GERMANY
		RISHAB, NASIK
54	M IN UPS UPTO 3.5 KVA	EMERSON, MUMBAI
		D B POWER, PUNE
		HI-REL, GANDHINAGAR
		APC, BANGALORE
		AP LAB, MUMBAI
		DELTA, GURGAON
55	LEVEL SWITCH - COND TYPE	EMERSON (SOLARTRON MOBREY), UK
		HI TECH, KOLKATA



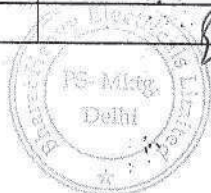
	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		YARWAY, USA
		LEVELSTATE, UK
56	SLEVEL SWITCH - FLOAT / DISPLACER TYPE	RAMAN INSTRUMENTS, DELHI
		ENDRESS & HOUSER, AURANGABAD
		MAGNETROL, BELGIUM
		LEVCON, KOLKATA
		SBEM, PUNE
		CHEMTROLS SAMIL, MUMBAI
		NAKATIYA, JAPAN
		SIGMA INDUSTRIES, MUMBAI
		DK INSTRUMENT, KOLKATA
		PUNE TECHTROL, PUNE
		V AUTOMAT, NEW DELHI
		LEVEL STATE, UK
		GAUGES BOURDON (GIC), PANVEL
57	AIR FILTER REGULATOR	FAIR CHILD, USA
		SHAVO NORGEN, MUMBAI
		SMC PNEUMATICS, NOIDA
		EMERSON (ASCO), CHENNAI
		FESTO, BANGALORE
		PLAKA, CHENNAI
58	COPPER TUBING / BRASS CONNECTORS	MAIN SUPPLIER APPROVED SOURCES
59	COUPLING / INTERPOSING RELAYS	PARAMOUNT, BANGALORE
		OMRON
		OEN
		JYOTI, BARODA
		ELSTA, SWITZERLAND
60	SOLENOID VALVE	ROTEX, VADODRA
		AVCON, MUMBAI
		HERION, GERMANY
		IMI NORGEN, GERMANY
		JAFFERSON, ARGENTINA
		ASCO, CHENNAI/USA
		FESTO, BANGALORE
		SMC PNEUMATICS, NOIDA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		PARKER, BRAD NAME
61	LUBE OIL CONTROL VALVE SELF REGULATING	NUOVO PIGNONE, ITALY
		EMERSON, CHENNAI
		SAMSON, GERMANY /PUNE
		FORBES ARCA, PUNE
62	GUIDED WAVE RADAR TYPE LEVEL TRANSMITTER	MAGNETROL, BELGIUM
		ENDRESS & HOUSER, GERMANY/AURANGABAD
		EMERSON, SWEDEN /
		ABB (K-TECH), USA
63	MAINTENANCE AND CALIBRATION EQUIPMENT	MAIN CONTRACTOR WILL PROCESS THE VENDORS DURING DETAIL ENGINEERING
64	TEMPERATURE GAUGE	BUDENBERG, UK
		DRESSOR (ASHCROFT) USA/GERMANY
		WIKA, GERMANY / PUNE
		WISE CONTROL, KOREA
		NAGANO KEIKI, JAPAN
		H GURU, SOUTH INDIA, BANGALORE
		A N INSTRUMENTS, KOLKATA
		NUOVA FIMA, ITLY
		GOA THERMOSTATIC, GOA
		GOA INSTRUMENT INDUSTRIES, GOA
		BAUMER, VAPI
		ASHCROFT, GANDHINAGAR
		NAGANO KEIKI, JAPAN
		H GURU, RISHRA / MUZAFFARPUR
		BAUMER, VAPI
		FORBES MARSHALL, HYDERABAD
65	FURNITURE FOR COMPUTER	OTS OFFICE TECH., INDIA
		GODREJ BOYCE
		FETHERLITE
		PAN OFFICE
		PYROTECH, UDAIPUR





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP - III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

66	TERMINAL BLCOK (CAGE & CLAMP TYPE)	WELDMULLER, GERMANY
		PHONIX, GERMANY / INDIA
		WAGO, GERMANY / INDIA
		ELMEX, VADODARA
67	FRP JUNCTION BOX	REFER ELECTRICAL LIST
68	PLC SYSTEM (IF APPLICABLE)	ABB
		SCHNEIDER, NASIK
		ROCKWELL, SAHIBABAD
		SIEMENS, NASIK
69	SMART POSITIONER	ABB
		MASOLENIEN
		SIEMENS
		SAMR
		YOKOGAWA
		EMERSON (FISHER RESEMount)
		MESTO
70	ROTAMETER	IEPL, HYDERABAD
		TRACE, HYDERABAD
		PLACKA, CHENNAI
		EUREKA, PUNE
		SCIENTIFIC DEVICES, MUMBAI
		FLOW STAR, FARIDABAD
		TOKYO KEISO, JAPAN
71	SINGLE AND MULTI POINT TEMPERATURE RECORDER (MICROPROCESSOR BASED)	YOKOGAWA INDIA, BANGALORE
		CHINO CORPORATION, JAPAN
		EUROTHERM, UK
		YOKOGAWA, JAPAN
		ABB, UK/GERMANY
		FUJI, JAPAN
		HONEYWELL, USA / NETHERLAND
72	RESERVE ROTATION INDICATOR (RRI)	GE BENTLY, USA
		SHINKAWA, JAPAN
		PROTOCONTROL, PUNE
73	INSTRUMENT TUBE FITTINGS (AIR)	MAIN SUPPLIER APPROVED SOURCES



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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74	BLANK	
75	PH / CONDUCTIVITY ANALYSER	HACH, SWITZERLAND
		YOKOGAWA, BANGALORE
		ABB, UK/USA
		EMERSON, PAWANE
76	PADO	MAIN CONTRACTOR WILL PROPOSED THE VENDOR DURING DETAIL ENGINEERING
77	DEW POINT SENSOR	GE SENSING, USA
		MICHELL INSTRUMENT, UK
78	BLANK	
79	BLANK	
80	BLANK PANELS / CABINETS	RITTAL, BANGALORE
		HOFFMAN, BANGALORE
		PYROTECH, UDAIPUR
81	CCTV COMPONENTS (P)	BOSCH, SWEEDEN
		AXIS, SWEEDEN
		AXIS, SWEEDEN
82	CONTROL DESK, SERVER / PC RACK FOR UNIT CONTROL ROOM AND AUXILIARY CONTROL ROOM	PYROTECH, UDAIPUR
		COSMOS, NOIDA
		ADARSH CONTROL, BANGALORE
83	DIGITAL INDICATORS	MASIBUS, GANDHI NAGAR
		ABB, GERMANY
		FOXBORO, UK
		YOKOGAWA, JAPAN
		GOSSEN / METROWATT / CAMILLE BAUER, GERMANY
		SIEMENS, GERMANY
		CHINO, JAPAN
		WEIGELL MESSAGERATE, GERMANY
		PYROTECH, UDAIPUR
84	DUST EMISSION MONITOR	LAND CONBUSTION, UK
		DURAG, GERMANY
		SICK MAIHAK, GERMANY
		EMERSON PROCESS MANAGEMENT, IRELAND



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		CODEL, UK
		FORBES MARSHALL, PUNE
85	ELECTRICAL INDICATING INSTRUMENTS (MOAIC COMPATIBLE)	SIEMENS, GERMANY
		GOSSEN / METROWATT / CAMILLE BAUER, GERMANY
		GANZ, GERMANY
		WEIGELL MESSAGERATE, GERMANY
86	FLUE GAS ANALYSER (CO)	CODEL, UK
		EMERSON PROCESS MANAGEMENT, IRELAND
		LAND CONBUSTION, UK
87	FLUE GAS ANALYSER (CO2)	VENDORS WILL BE DISCUSSED DURING DETAIL ENGINEERING.
88	FLUE GAS ANALYSER (SO2 AND NOx)	SICK MAIHAK, GERMANY
		EMERSON PROCESS MANAGEMENT, PAWANE
		FUJI, JAPAN
89	FLUE GAS ANALYSER (O2 ANALYSER HT)	SECO, CHENNAI
		MARATHON MONITOR, USA
90	FLUE GAS ANALYSER (O2 ANALYSER LT)	EMERSON (ROSEMOUNT), PAWANE
		FORBES MARSHALL, PUNE
		ICE, MUMBAI
		YOKOGAWA, BANGALORE
		ABB, BANGALORE
91	FLUE GAS ANALYSER PANEL	CHEMTROL, GOA
		EMERSON PROCESS MANAGEMENT, NAVI MUMBAI
		PYROTECH, UDAIPUR
		ANALYTICAL INSTRUMENT COMPANY, KOTA
92	GRAPHIC INTERFACE UNIT	ROCKWELL AUTOMATION
		DIGITAL INSTRUMENTS AND CONTROL SYSTEM (PROACE)
		SCHNIEDER ELECTRIC
		RENU ELECTRONICS, PUNE
		RED LION, USA
93	HAND HELD CALIBRATOR	MAIN CONTRACTOR APPROVED

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA - POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		SOURCES
94	HART MANAGEMENT SYSTEM	YOKOGAWA, INDIA
		EMERSON PROCESS MGMT, USA / SINGAPORE / INDIA
		P & F, GERMANY / BANGALORE
		MTL, CHENNAI
95	IMPACT HEAD TYPE FLOW	DETREICH / EMERSON, USA
		MIDWEST, USA
		VERIS INC, USA
96	ISOLATOR	TURCK, BRAND NAME
		STAHl, BRAND NAME
		P & F, BRAND NAME
		MTL, BRAND NAME
		WIED MULER, GERMANY
97	MASTER SLAVE CLOCK SYSTEM	HOPF, GERMANY
		SERTEL, CHENNAI
		HATHWAY, USA
		MEIN BERG, GERMANY
		SANDS, CHENNAI
		MASIBUS, GANDHI NAGAR
		PRO-PLAN, GERMANY
98	MOSAIC TILES / CONSOLE ITEMS	TEW, GERMANY
		AVAYA (EXTREME), USA
		GARRET, USA
99	NETWOEK COMPONENTS	JUNIPER, USA
		ENTERASYS, USA
		HP (3 COM, H3C)
		CISCO
		FOUNDARY
		NETGEAR
		HIRSCHMANN, GERMANY
		ENTRON
100	ONLINE MERCURY ANALYSER	DURAG, BANGALORE
101	PA SYSTEM	NEUMAN, GERMANY
		CHASMITA, VADODARA
		HARITASA, BANGALORE
		KARTHICK, CHENNAI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		BYTE COMMUNICATION, GURGAON
		BOSCH, BANGALORE
102	PRINTER (DOT MATRIX)	LIPI, WIPRO / TVSE / GENICOM / IBM / EPSON / LEXMARK
103	PRINTER (INKJET)	HP / CANON / EPSON / IBM / LEXMARK
104	PRINTER (LASER)	HP / CANON / EPSON / IBM / LEXMARK
105	SEMAPHORE INDICATORS	SUBKLEW, GERMANY
		K & N, AUSTRIA
		ABB, GERMANY
		SIEMENS, GERMANY
106	SWAS (SAMPLING HANDLING SYSTEM AND DRY PANEL)	EMERSON PROCESS MANAGEMENT, NAVI MUMBAI
		FORBES MARSHALL, PUNE
		LOWE, UK
		STEAM EQUIPMENT, PUNE
107	SWAS ANALYSER (CHLORIDE)	ABB, UK
		ORION, USA
108	SWAS ANALYSER (CONDUCTIVITY)	HACH, SWITZERLAND
		EMERSON PROCESS MANAGEMENT, NAVI MUMBAI
		YOKOGAWA, JAPAN
		ABB, UK
109	SWAS ANALYSER (DISSOLVED OXYGEN)	ORION, USA
		HACH, SWITZERLAND
		EMERSON PROCESS MANAGEMENT, USA
		ABB, UK
110	SWAS ANALYSER (HYDRAZINE)	HACH, SWITZERLAND
		ORION, USA
		ABB, UK
111	SWAS ANALYSER (PH)	ABB, UK
		HACH, SWITZERLAND
		EMERSON PROCESS MANAGEMENT, NAVI MUMBAI
		YOKOGAWA, JAPAN
112	SWAS ANALYSER (PHOSPHATE)	HACH, SWITZERLAND

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		HACH, SWITZERLAND
		ABB, UK
113	SWAS ANALYSER (SILICA)	HACH, USA
		HACH, SWITZERLAND
		ABB, UK
114	SWAS ANALYSER (SODIUM)	HACH, SWITZERLAND
		ORION, USA
		ABB, UK
115	SWAS ANALYSER (TURBIDITY)	ABB, UK
		EMERSON, USA/ PAWANE / SINGAPRE
		WTW, GERMANY
		E & H, GERMANY
116	SYNCHRONISING RELAY	SIEMENS, MUMBAI
		AREVA, CHENNAI
		AB, BANGALORE
117	SYNCHROSCOPE	ALSTHOME, CHENNAI
		REYROLLE, UK
		ABB, GERMANY
		AE, MUMBAI
118	ULTRASONIC TYPE FLOW METER (FOR STACK)	MAIHAK, GERMANY
		DURAG, GERMANY
		TELEDYNE, USA
119	UPS / ACDB	EMERSON (DB POWER), PUNE
		MERIN & GERIN FRANCE
		GUTUR, SWITZERLAND
		AEG (SHAFT), GERMANY
		HIREL, GANDHINAGAR
		EMERSON (TATA LIBERT), MUMBAI
		FUJI, JAPAN
120	VIBRATION MONITORING SYSTEM FOR BOP	SHINKAWA, JAPAN
		BENTLY NIVEDA, USA
		VIBROMETER, SWITZERLAND
		ROCKWELL AUTOMATION, USA
		SKF, USA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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121	VOLTMETER	RISHABH, NASIK AE, MUMBAI YOKOGAWA, JAPAN
122	WHATOUR METERS	L&T, BANGALORE ELSTER, MUMBAI SECURE METERS, UDAIPUR YOKOGAWA, UK GEC, UK
123	WIRELESS SOLUTION (MICROVAVE TOWER COMMUNICATION)	KD LINK, GOA SHEETAL, PUNE PYROTECH, UDAIPUR ARYA COMMUNICATIONS, NEW DELHI
124	LARGE VIDEO SCREEN (LED)	DELTA, GURGAON BARCO, NOIDA PLANER SYSTEM, USA
125	AAQMAS	ENVIRONMENT SA INDIA PVT. LTD., BANGALORE CHEMTROL, GOA THERMO ELECTRON LLS INDIA PVT. LTD., MUMBAI
126	CC BOX (IF APPLICABLE)	VENDORS WILL BE DISCUSSED DURING DETAIL ENGINEERING.
127	OPERATOR TESTING SIMULTATOR	VENDORS WILL BE DISCUSSED DURING DETAIL ENGINEERING.
128	DEW POINT SENSOR	GE SENSING, USA MICHELL INSTRUMENT, UK
129	GENERATOR END WINDING VIBRATION MONITORING SYSTEM	VIBRO SYSTEM, CANADA MC MONITORING, SWITZERLAND
130	H2 GAS ANALYSER	ABB, GERMANY EMERSON (ROSEMOUNT), USA SIEMENS, GERMANY
1	STICKER RECLAIMER - SUB - CR ITEM	MBE, KUMARDUBHI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		SANDVIK ASIA, PUNE
		FLSMIDTH, CHENNAI
		L&T, KANCHEEPURAM
		ELECON, VV NAGAR
2	SLEWRING	TITANUS, SOUTH AFRICA
		IMO, GERMANY
		SKF, FRANCE
		ROTHERDE, GERMANY
3	WAGON TIPPLER (SUB-QR ITEM) & SIDE ARM CHARGER	ELECON, VV NAGAR
		FAMAK S.A. (IN ASSOCIATION WITH MBE-ASANSOL)
		HEYL & PATTERSON (IN ASSOCIATION WITH FL SMIDTH CHENNAI, USA
		L&T, KANSBAHAL
		TKIL, PUNE
4	APRON FEEDER WITH DRIBBLE CONVEYOR (2200 TPH RATED)	MBE, KUMARDUBHI
		L&T, KANSBAHAL
		ELECON, VV NAGAR
		FLSMIDTH, CHENNAI
		TKIL, PUNE
5	PADDLE FEEDER (1800 TPH RATED)	L&T, KANSBAHAL
		ELECON, VV NAGAR
		FAMAK S.A. (IN ASSOCIATION WITH MBE-KUMARDHUBI)
		FLSMIDTH, CHENNAI
		TKIL, PUNE
6	RING GRANULATOR (2035 THP RATED)	PENNSYLVANIA CRUSHER CORPORATION, USA
		ELECON, VV NAGAR
		TKIL, PUNE
		THYSENKRUPP FORDER TECHNIK, GERMANY
		L&T, KANSBAHAL
		MBE, KUMARDUBHI
		AMERICAN PULVERISER, USA

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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7	VIBRATING SCREEN / FEEDER (2035 TPH RATED)	TECHNO VIBRAZONI, ITALY
		ELECON, VV NAGAR
		TKIL, PUNE
		THYSSENKRUPP FORDER TECHNIK, GERMANY
		L&T, KANSBAHAL
		MBE, KUMARDUBHI
		GENERAL KINEMATICS, USA
8	TRAVELLING TRIPPER	L&T - EWL, KANCHEEPURAM
		TKIL, PUNE
		ELECON, VV NAGAR
		MBE, KUMARDUBHI
		HMT, KOLKATA
		L&T, MACNIL, CHENNAI
		L&T, KANSBAHAL
		TECPRO, BHIWADI
9	BABRIC BELTING (FR GRADE) * CAT - III FOR BUNKER SEALING BELT	PHONEX CONVEYOR BELT, KOLKATA
		IMASS SA, GREECE,
		MRF, CHENNAI
		SEMPEL TRAN NIRON, MUMBAI
		HINDUSTAN RUBER, SILVASA
		NORTHLAND RUBBER, SONEPAT
		RAVASCO TRANSMISSION & PACKING, VAPI
		ORIENTAL RUBBER, PUNE
		FORECH, CHENNAI
		YOKOHAMA, JAPAN
10	STEEL CORD BELT (FR GRADE)	PHONEIX CONVEYOR BLET, KOLKATA
		YOKOHAMA, JAPAN
		IMASS SA, GREECE,
		FORECH, CHENNAI
		CAMOPLAST, KOREA
11	IDLERS	ELECON, VV NAGAR
		MBE, KUMARDUBHI
		KALI, KUMBAKONAM
		BENGAL TOOLS, KOLKATA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		V V N MFG, V V NAGAR
		TECPRO, BHIWADI
		TKIL, PUNE
		PROMAC, BANGALORE
		L&T, EWI, KANCHEEPURAM
		TECPRO, BHIWADI
11 A	BEARINGS FOR IDLERS	ABL, HOSUR
		NE (NBC), JAIPUR
		FAG, GERMANY
		SKF, GERMANY
		NSK, JAPAN
		FAG (INDIA), VADODRA
		SKF (INDIA), PUNE
12	PULLEYS	ELECON, VV NAGAR
		PROMAC, BANGALORE
		MBE, KUMARDUBHI
		BENGAL TOOLS, KOLKATA
		KALI, KUMBAKONAM
		TECPRO, BHIWADI
		TKIL, PUNE
		L&T, - EWL, KANCHEEPURAM
		V V N MFG, V V NAGAR
12 A	FUBBER LAGGING FOR PULLEYS	RISHI INDUSTRIES, SONEPAT
		TEMSEC RUBBER, KOLKATA
		WAHEGURU, KOLKATA
		SEUDEEP RUBBER, V V NAGAR
		DEBDIP RUBBER, KOLKATA
		CORI RUBBER, CHENNAI
		PRADEEP RUBBER, CHUKULA
		PRESIDENCY RUBBER, KOLKATA
		THEJO ENGG., CHENNAI
12 B	BEARING FOR PULLEYS	FAG, GERMANY
		NSK, JAPAN
		ZKL, CZECH REPUBLIC
		TIMKEN, USA / SA / CHINA
		SKF, EUROPE / UK / MALAYSIA
		NTN, JAPAN



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		FAG (INDIA), VADODRA
		SKF (INDIA), PUNE
13	HELICAL GEARBOX	SHANTI GEARS, COIMBATORE
		ELECON, VV NAGAR
		SIEMANS (FLENDER) KHARAGPUR
		PREMIUM TRANSMISSION LTD., PUNE / FALTA
		SIEMENS (FLENDER), GERMANY
		NEW ALLENBURY WORKS, KOLKATA
14	PLANETARY GEARBOX	ELECON, VV NAGAR
		SIEMENS (FLENDER), GERMANY
		MOVENTAS, GERMANY
		BREVINI, ITALY
		SEW EURODRIVE GMBH & CO., GERMANY
15	FLUID COUPLING (TRACTION TYPE)	PREMIUM TRANSMISSION LTD., AURANGABAD
		ELECON, VV NAGAR
		FLUIDOMAT, INDORE
		VOITH (INDIA), HYDERABAD
		VOITH, GERMANY
16	FLUID COUPLING (SCOOP TYPE)	FLUIDOMAT, INDORE
		VOITH, GERMANY
		PREMIUM TRANSMISSION LTD., AURANGABAD
		ELECON, VV NAGAR
		VOITH (INDIA), HYDERABAD
17	GEARED COUPLING	FLEX-TRAN, PUNE
		NAW, FARIDABA / KOLKATA
		GBM, KOLKATA
		ELECON, VV NAGAR
		WELLMAN, KOLKATA
		CONCORD, BANGALORE
18	FLAP GATE, R&P GATE AND ROD GATE, (FABRICATION ONLY), ROD GATE CAT - III	TECPRO, BHIWADI
		MINING AND MATERIAL HANDLING, KOLKATA

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		UNITED TECHNOMAC, PUNE
		MBE, KUMARDUBHI
		TKIL, PUNE
		PREPEC, HOWRAH
		HMTC, KOLKATA
		ELECON, VV NAGAR
19	VENTILATION SYSTEM (CAT-III FOR PROPELLER FANS)	HYDERABAD POLLUTION CONTROL, HYDERABAD
		PATEL AIR TEMP, AHMEDABAD
		MARATHAN ELECTRIC, KOLKATA
		FLAKT, KOLKATA
		C DOCTOR, KOLKATA
		S K SYSTEMS, SONEPAT
		DUSTVEN, BANGALORE
20	DUST EXTRACRTION SYSTEM	DUSTVEN, BANGALORE
		AEROVENT, MUMBAI
		WRC, V U NAGAR
		REICO, PUNE
21	HORIZONTAL CENTRIFUGAL PUMP	KSB, PUNE
		BEST & CROMPTON, CHENNAI
		SAM TURBO, COIMBATORE
		KBL, KIRLOSKARWADI
		M&P, PUNE
		WPIL, GHAZIABAD
		VOLTAS, MUMBAI
		SULZER, MUMBAI
		KISHORE PUMP, PUNE
		FLOWMORE, GHAZIABAD
22	SUMP PUMP	KBL, KIRLOSKARWADI
		SAM TURBO, COIMBATORE
		M&P, PUNE
		KISHORE PUMP, PUNE
		MSEL, BANGALORE
		BEST & CROMPTON, CHENNAI
23	CI GATE / GLOBE / CHECK VALVES (UPTO 600 NB PN18)	BANKIM & CO, KOLKATA
		H SARKAR, KOLKATA



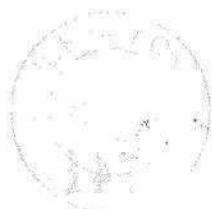


NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP - III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		AUDCO, CHENNAI
		KBL, KIRLOSKARWADI
		A V VALVE, AGRA
		LEADER ENGG, JULLUNDHAR
24	CS / FS GATE / GLOBE / CHECK VLAVES (CS UPTO 600 NB CLASS 150, FS UPTO 50 NB CLASS 800	KBL, KIRLOSKARWADI
		KSB, COIMBATORE
		STEEL STRONG, MUMBAI
		HAWA ENGINEERS, AHMEDABAD
		FOURES, THANE/AURANGABAD
		LEADER ENGG, JULLUNDHAR
		AUDCO, CHENNAI
		WEIR BDK VALVES, HUBLI
25	BALL VALVES (UPTO 350 NB 150 CLASS, 50 NB 800 CLASS)	WEIR BDK VALVES, HUBLI
		MICROFINISH, HUBLI
		AUDCO, CHENNAI
		FLOW CHEM, AHMEDABAD
		LEADER ENGG, JULLUNDHAR
		BOMBAY METAL, MUMBAI
		SANT VALVES, JULLUNDHAR
26	CHAIN PULLEY BLOCK	TRACTEL TIRFOR, PALWAL
		LIFTING EQUIPMENT, DELHI
		ARMSEL, BANGALORE
		HERCULES HOIST, RAIGAD,
27	EOT CRANES	FAFCO, VADODARA / MUMBAI
		MUKAND, THANE
		WMI, MUMBAI
		ANUPAM INDUSTRIES, V U NAGAR
		UNIQUE INDUSTRIES HANDLERS, NASIK
		HEC, RANCHI
		TUOBRO FURGUSON INDIA PVT. LTD., KOLKATA
		REVE INDUSTRIES, FARIDABAD
		AVON CRANES, GURGAON
		EDDY CRANES ENGG., PUNE



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		TISCO GROWTH, JAMSHEDPUR
		CONSOLIDATED HOIST, SATARA
		MILLARS, KARAMSAD
		ALPHA SERVICES, ALWAR, RAJASTHAN
		CENTURY CRANE ENGINEERS, PALVAL
		ARMSELL, BANGALORE
28 B	ELECTRIC HOIST	AVON CRANES, GURGAON
		CONSOLIDATED HOIST, SATARA
		EDDY CRANES ENGG., PUNE
		GRIP ENGINEERS, FARIDABAD
		HERCULES HOIST, RAIGAD,
		REVA INDUSTRIES, FARIDABAD
		EDDY CRANES ENGG., PUNE
		ARMSELL, BANGALORE
		TRACTEL TIRFOR, PALVAL
		ALPHA SERVICES, ALWAR, RAJASTHAN
		CENTURY CRANE ENGINEERS, PALVAL
		GRIP ENGINEERS, FARIDABAD
		ELECTRO THERAPY, RISHRA
29	ALLOY STEEL / CARBON STEEL	INDIAN FORGE AND STAMPING, JAMSHEDPUR
		BAY FORGE, CHENNAI
		VIKRANT FORGINGS, KOLKATA
		SAIL, DURGAPUR
		BHARAT FORGE, PUNE
		PUNJAB HAMMER, MANDI GOVINDGARH
		FORGING INDIG, KOLKATA
		PAHLAD RAI FORGINGS, KANPUR
		HEC, RANCHI
		TAYO ROLLS, JAMSHEDPUR
		VISHNU FORGINGS, NASIK
30	CS AND ALLOY STEEL CASTINGS	STEELCAST, BHAVNAGAR
		KOLHAPUR STEEL, KOLHAPUR



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		AQUA ALLOYS, KOLHAPUR
		ELECON ENGG (ERSTWHILE PRAYAS CASTINGS) VV NAGAR
		MARTOPERL ALLOYS, HYDERABAD
		UP STEEL MUZAFFARNAGAR
		GS ALLOYS, VIJAYWADA
		VOSSLOH BEEKAY CASTINGS, BHILAI
		RAIPUR CASTING, BILASPUR
31	FORGING CRUSHER / LINE SHAFT / PIVOT SHAFT FOR WT AND BUCKET WHEEL SHAFT FOR SR	BAY FORGE, CHENNAI
		SAIL, DURGAPUR
		HARAT FORGE, PUNE
		HINDUSTAN FORGE, MUMBAI
		VIKRANT FORGING, KOLKATA
		TAYO ROLLS, JAMSHEDPUR
		HEC, RANCHI
32	MISC. FABRICATION ITEMS & TECHNOLOGICAL STRUCTURE	MBE, KUMARDUBHI/ ASANSOL
		ELECON VV NAGAR
		HMTCL, KOLKATA
		PROMAC, BANGALORE
		BENGAL TOOLS, KOLKATA
		TECPRO, BHIWADI
33	ELEVATORS	ALIKRAFT, VADODARA
		UNIVERSAL CONSTRUCTION MACHINERY, PUNE
		AVON CRANES, GURGAON
		MEKASTER, HALOL
34	VIBRATION ISOLATION SYSTEM	GERB INDIA, BANGALORE
35	WIRE ROPE	BOMBAY WIRE ROPES, MUMBAI
		BHARAT ROPE, MUMBAI
		USHA MARTIN, RANCHI
36	PAC	VOLTAS, THANE / SILVASSA
		CARRIER AIRCON, GURUGAON
		BLUESTAR, SILVASSA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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37	DUST SUPPRESSION SYSTEM (PLAIN WATER)	SPRAYING SYSTEM, BANGALORE
		CHEMTROL SAMILL PVT. LTD., THANE
		TPS, DELHI
		APS SYSTEMS, KOLKATA
		WRC, V U NAGAR
		F HARLEY, KOLKATA
38	DUST SUPPRESSION SYSTEM (DRY FOG)	F HARLEY, KOLKATA
		SPRAYING SYSTEM, BANGALORE
		CHEMTROL SAMILL PVT. LTD., THANE
		TPS, DELHI
39	BELT VULCANISER	NILOS, CHENNAI
		THEJO ENGG., CHENNAI
40	SAFETY RELIEF VALVE	LEADER ENGG, JULLUNDHAR
		SPIRAX MARSHALL, PUNE
		FISHER SANMAR, CHENNAI
41	STRAINERS (BASKET TYPE)	GRANDPRIX, NEW DELHI
		MULTITAX, NOIDA
		SAROJINI ENTERPRISES, KOLKATA
		GUJARAT OTOFILT, AHMEDABAD
		OTOKLIN FILTERS INDIA, MUMBAI
		GREAVES COTTON, MUMBAI
42	BUTTER FLY VALVE (500 NB PN 16, 900 NB PN 10)	AUDCO, CHENNAI
		TYCO FLOW CONTROL, HALOL
		KIRLOSKAR BROTHERS, KONDHAPURI
		R & D MULTIPLES, VALSAD
		IL, HUBLI
		BDK, PUNE
		INTERVALVE, PUNE
		FOURESS ENGG., BANGALORE
		CRANE PROCESS, SATARA
43 A	MS ERW PIPES AS PER IS 1239	JINDAL, GHAZIABAD
		JINDAL, HISSAR
		SURYA ROSHNI, BAHADURGARH





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP - III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		SAIL, ROURKELA
		TISCO, JAMSHEDPUR
		INDUS TUBES, GB NAGAR
		DADU PIPES, SIKANDARABAD
		WEISPUN, ANJAR
43 B	MS PIPE AS PER IS 3589 (UPTO 9600 NB)	JINDAL GHAZIABAD
		JINDAL, HISSAR
		SURYA ROSHNI, BAHADURGARH
		DADU PIPES, SIKANDARABAD
		SAIL, ROURKELA
		PRATIBHA PIPES & STRUCTURAL, THANE
		INDUS TUBES, GB NAGAR
		WEISPUN, ANJAR
		MAHARASTRA SEAMLESS, RAIGAD
		LALIT PROFILE, THANA
		RATNAMANI, KUTCH
		JCO GAS PIPES, CHIDHWARA
		RATNAMANI, KUTCH
		SURENDRA ENGG., RAJPURA
		MUKAT TANKS & VESSELS, TARAPUR
		MUKAT PIPES, FAJAPURA
		PSL HOLDINGS, CHENNAI / DAMAN / KUTCH / VIZAG
		MAIN INDUSTRIES, INDORE
		WEILSPUN, BARUCH
		SAMSHI PIPES, BARODA
44	FORGED / FORMED FITTINGS	GUJARAT INFRA PIPES, BARODA
		EBY, MUMBAI
		N.L. HAZARA, KOLKATA
		MS FITTINGS, KOLKATA
		TRUE FORGE, FARIDABAD
		TUBE PRODUCTS, BARODA
		PIPEFIT ENGINEERS, BARODA
		SIDDARTH & GAUTAM, FARIDABAD
45	COAL SAMPLER SYSTEM (SUB-QR ITEM)	EAST MAN CRUSHER, KOLKATA
		ERIEZ MAG EUROPE LTD, UK

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		SIEVE TECHNIK, GERMANY
		THERMO RAMSAY INC, USA
		ADVANCE SYSTEMS SAMPLING, KOLKATA
46	CI PRESSURE RELIEF / REDUCING VALVE	DARLING MUESCO, AHMEDABAD
		LEADER ENGG, JULLUNDHAR
		FISCHER SANMAR, PUNE
		SPIRAX MARSHALL, PUNE
		FAINGER LESSER, AURANGABAD
47	HYDRAULIC POWER PACK	EATON POWER, PUNE
		BOSCH REXROTH, AHMEDABAD
		HAGGLUNDS, SWEDEN
		L&T, HYDRAULICS, BANGALORE
48	HYDRAULIC CYLINDER	VELJAN, HYDERABAD
		WIPRO, BANGALORE
		EATON POWER, PUNE
49	HYDRAULIC MOTOR	POCLAIN HYDRAULICS
		HAGGLUNDS, SWEDEN
		PARKER CALZONI, ITALY
		KAWASAKI, UK
50	SCREW TYPE AIR COMPRESSORS	ELGI, COIMBATORE
		ATLAS COPCO, BELGIUM, ASSEMBLY & TESTING AT AC-PUNE
		INGERSOL RAND INDIA, AHMEDABAD
		KOLBELCO, JAPAN
		AERZENER, GERMANY
		ELGI, AIR ENDS FROM HITACHI-JAPAN ASSEMBLY 7 TESTING AT ELGI-COIMBATORE
51	AIR RECEIVER	UNITED ENGINEERS, NASHIK
		TEMASME VESSLEX, NOIDA
		INTEGRATED ENGINEERS, MUMBAI
		ABACUS HEAT TRANSFER, FARIDABAD
		PARKAIRE, DELHI
		GEM, COIMBATORE



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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52	PLAIN WATER SPRAY NOZZLE / SPRINKLERS FOR DS SYSTEM	SPRAYING SYSTEM, BANGALORE
		F. HARLEY, KOLKATA
		EAGLE AGRO, RAJKOT
53	PORTABLE FIRE EXTINGUISHER	BIS APPROVED SOURCE WITH VALID LICENSE
54	KNIFE GATE VALVE	VASS INDUSTRIES, CHENNAI
		FOURESS, MUMBAI
		ORBINOX, COIMBATORE
1	AIR INTAKE VALVE	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
2	AIR LOCK FEDER VESEL	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
3	AIR RECEIVER	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
4	AIRE WATER / OIL CONVERTER TANK	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
5	BAH ACCESSORIES	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
6	BOTTOM ASH HOPPE R	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
7	BUFFER HOPPER	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		MBE, KOLKATA
		INDURE, SAHIBABAD
8	BA HOPPER GATE ASSLY	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
9	BOTTOM ASH OVER FLOW TANK	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
10	CRUSHER INCLUDING DRIVE ARRANGEMENT	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
11	DRY ASH UNLOADING TELESCOPIC CHUTE	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
12	DYKE END VALVE	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
13	EQUALISING VALVE	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
14	FLUDIZING PAD	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
15	FLUDIZING APPARATUS	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
16	FLY ASH FEED VALVE	MACAWBER BEEKAY, KASNA





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP - III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
17	FLY ASH BRANCH SEGREGATION VALVE	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
18	SILLO INLET / FLY ASH PRESSURE TRANSPORTATION INTERCONNECTION VALVE	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
19	FLY ASH STORAGE SILO	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
20	JETTING NOZZLES	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
21	JET PUMP	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
22	MISC FABRICATION (FLANGE, HANGERS, CLAMPS, ETC.)	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
23	MS ADOPTER	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
24	PIPE COUPLING	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		INDURE, SAHIBABAD
25	PLUG GATE FOR SUMP ISOLATION	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
26	PRESSUREE / VACUUM RELIEF VALVE	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
27	ROTARY FEEDER	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
28	ROTARY UNLOADER	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
29	OVERFLOW WEIR BOX, SEAL BOX, FEED GATGE ENCLOSURES, FEED SUMP	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
30	SURGE / SETTING TANK	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
31	STRAINER IN HCSD PUMP SUCTION	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
32	HCSD SILO	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
33	AIR VESSEL IN CONTROL LOOP (DAMPENER)	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP – III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		MBE, KOLKATA
		INDURE, SAHIBABAD
34	MIXING TANK	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
31	TROUGH TYPE EXPN. JOINT (ECO & ECO BYPASS)	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
32	VACUUM BREAKER	MACAWBER BEEKAY, KASNA
		DCIPS, KOLKATA
		MBE, KOLKATA
		INDURE, SAHIBABAD
33	ASH SLURRY PUMP (SUB-QR ITEM)	SAM INDUSTRIAL PUMPS, COIMBATORE
		INDURE, SAHIBABAD
		WEIR MINERALS (MANUFACTURING AT WEIR MINERALS BANGALORE)
		INDURE, SAHIBABAD
34	HORIZONTAL WATER PUMPS	FLOWMORE, GHAZIABAD
		WORTHINGTON, GHAZIABAD
		MATHER & PLATT, PUNE
		SAM TURBO INDUSTRY, COIMBATORE
		KSB, PUNE
		BEST AND CROMPTON, CHENNAI
		KISHORE PUMPS, PUNE
		SULZER, MUMBAI
		VOLTAS, MUMBAI
		KISLOSKAR BROTHERS, KISLOSKARWADI
35	VERTICAL SUMP DRAINAGE PUMP	WEIR MINERALS, BANGALORE
		MCNALLY SAYAJI, BANGALORE
		SAM TURBO INDUSTRY, COIMBATORE
36	OIL FREE SCREW COMPRESSORS	INGERSOL RAND INDIA,



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		AHMEDABAD
		KOBELCO, JAPAN
		ATLAS COPCO, BELGIUM
		ELGI (HITACHI, JAPAN), COIMBATORE
		AERZENER, GERMANY
37	OIL INJECTED / FLOODED SCREW COMPRESSORS	ELGI EQUIPMENTS, COIMBATORE
		ATLAS COPCO, BELGIUM
38	ROTARY TWIN LOBE BLOWERS FLUIDISING	LULKARNI POWER TOOLS, SHIROL
		EVEREST TRANSMISSION, DELHI / BAHADURGARH
		KAY INTERNATIONAL, SONEPAT
		SWAM PNEUMATICS, NOIDA
39	VACUUM PUMPS LIQUID RING	GARDNER DENVER NASH MACHINERY, CHINA
		KAKATI, HYDERABAD
		VACUUNAIRE, AHMEDABAD
40	KNIFE GATE VALVE (SLURRY DUTY)	VASS INDUSTRIES, CHENNAI
		ORBINOX, COIMBATORE
		SISTAG, SWITZERLAND
		WEIR MINERALS, BANGALORE
		FLOURESS ENGG., BANGALORE
41	PLUG VALVE (SLURRY DUTY ABOVE 10 KG/CM2)	AUDCO, CHENNAI
42	PLUG VALVE WATER DUTY	FISHER XOMOX, CHENNAI
		WEIR BDK, HUBLI
		AUDCO, CHENNAI
43	KNIFE GATE VALVE (FLY ASH DUTY)	ORBINOX, COIMBATORE
		VASS INDUSTRIES, CHENNAI
		SISTAG, SWITZERLAND
		FOURESS, BANGALORE
		DCIPS, KOLKATA
		JASH SHUTTE, INDORE
44	BALL VALVES (UPTO 350 NB 150 CLASS, 50 NB 800 CLASS)	FLOWCHEM, AHMEDABAD
		BDK, HUBLI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		AUDCO, CHENNAI
		MICROFINISH, HUBLI
		PRECISION ENGG., MUMBAI
45	CI BUTTER FLY VALVE 500 NB 150 PN 10/ PN 16; 900 NB PN 10	AUDCO, CHENNAI
		TYCO FLOW CONTROL, HALOL
		KIRLOSKAR BROTHERS, KONDHAPURI
		R & D MULTIPLIES, VALSAD
		IL, PALAKKAD
		BDK, HUBLI
		INTERVALVE, PUNE
		FOURESS ENGG., BANGALORE
		CRANE PROCESS, SATARA
46	CI / SGI GAGE / GLOBE / CHECK VALVES (UPTO 600 NB, PN16)	KIRLOSKAR BROTHERS, KONDHAPURI
		H SARKAR, HOWRAH
		LEADER, JULLANDHAR
		A V VALVES, AGRA
		BANKIM, HOWRAH
47	GM VALVES	LEADER, JULLANDHAR
48	SAFETY RELIEF VALVE	SPIRAX MARSHALL, PUNE
		FISCHER SANMAR, CHENNAI
		LEADER, JULLANDHAR
49	CS VALVES (UPTO 600 NB 150 CLASS)	WEIR BDK, HUBLI
		KSB, COIMBATORE
		STEEL STRONG, MUMBAI
		AUDCO, CHENNAI
		HAWA ENGINEERS, AHMEDABAD
		LEADER, JULLANDHAR
		FOURESS, MUMBAI / AURANGABAD
50	FORGED STEEL VALVE (UPTO 50 NB 800 CLASS)	KSB, COIMBATORE
		WEIR BDK, HUBLI
		HAWA ENGINEERS, AHMEDABAD
		LEADER, JULLANDHAR
		STEEL STRONG, MUMBAI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		AUDCO, CHENNAI
		FOURESS ENGG., MUMBAI / AURANGABAD
51	FORGED ERW PIPE AS PER IS 1239 (UPTO 150 NB)	JINDAL, GHAZIABAD
		JINDAL, HISSAR
		SURYA ROSHNI, BAHADURGARH
		SAIL, ROURKELA
		TISCO, JAMSHEDPUR
		INDUS TUBES, G B NAGAR
		DADU PIPES, SIKANDRABAD
		WEISPUN, ANJAR
52	MS PIPES AS PER IS 3589 (UPTO 900 NB)	JINDAL, GHAZIABAD
		JINDAL, HISSAR
		SAIL, ROURKELA
		SURYA ROSHNI, BAHADURGARH
		DADU PIPES, SIKANDRABAD
		SAIL, ROURKELA
		PRATIBHA PIPES & STRUCTURAL, THANE
		INDUS TUBES, G B NAGAR
		WEISPUN, ANJAR
		MAHARASHTRA SEAMLESS, RAIGAD
		LALIT PROFILE, THANE
		RATNAMANI, KUTCH
		JCO GAS PIPES, CHIDDWARA
		RATNAMANI, KUTCH
		SURENDRA ENGG, RAJPURA
		MUKAT TANKS & VESSELS, TARAPUR
		MUKAT PIPES, RAJPURA
		PSL HOLDINGS, CHENNAI / DAMAN / KUTCH / VIZAG
		MAN INDUSTRIES, INDORE
		WELSPUN, BARUCH
		SAMSHI PIPES, BARODA
53	CI SPUN PIPES	KESORAM SPUN PIPES, HOOGHLY
		KUSHLAVA, VIJAYAWADA
		KAPILANSH DHATU UDYOG,





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP – III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		NAGPUR
		ELECTROSTEEL, CHENNAI
54	GEAR BOX	ELECON ENGG., V V NAGAR
		SHANTI GEARS, COIMBATORE
		SIEMENS (FLENDER) KHARAGPUR
		NEW ALLENBURY, KOLKATA
		PTL, PUNE/FLATA / AURANGABAD
55	FLUID COUPLING (SCOOP TYPE & TRACTION TYPE)	FLUIDOMAT, DEWAS
		PTL, PUNE/FLATA / AURANGABAD
		ELCON, V V NAGAR
		VOITH, HYDERABAD
56	EOT CRANES	FAFCO, VADODARA / MUMBAI
		MUKAND, THANE
		WMI, MUMBAI
		ANUPAM INDUSTRIES, V U NAGAR
		UNIQUE INDUSTRIES HANDLERS, NASIK
		HEC, RANCHI
		TURBO FURGUSON INDIA PVT., LTD, KOLKATA
		REVA INDUSTRIES, FARIDABAD
		AVON CRANES, GURGAON
		EDDY CRAANES ENGG., PUNE
		TISCO GROWT, JAMSHEDPUR
		CONSOLIDATED HOIST, SATARA
		MILLARS, KARAMSAD
		ALPHA SERVICES, ALWAR, RAJASTHAN
		CENTURY CRANE ENGINEERS, PALVAL
		ARMSELL, BANGALORE
57	ELECTRIC HOIST	AVON CRANES, GURGAON
		CONSOLIDATED HOIST, SATARA
		EDDY CRAANES ENGG., PUNE
		GRIP ENGINEERS, FARIDABAD
		HERCULES HOIST, RAIGAD
		REVA INDUSTRIES, FARIDABAD



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		EDDY CRAANES ENGG., PUNE
		ARMSELL, BANGALORE
		TRACTEL TRIFOR, PALAAL
		ALPHA SERVICES, ALWAR, RAJASTHAN
		CENTURY CRANE ENGINEERS, PALVAL
		GRIP ENGINEERS, HYDERABAD
		ELECTRO THERAPY, RISHRA
58	PNEUMATIC / HYDRAULIC ACTUATOR	SCHRADER DUNCAN, MUMBAI
		ROTEX, MUMBAI
		VASS INDUSTRIES, CHENNAI
		NUCON, HYDERABAD
		DUNCAL, MUMBAI
59	BASALT LINED PIPES & FITTINGS	DCIPS, KOLKATA
		TURBO ENGINEERING, COIMBATORE
		INDURE, SIKANDRABAD
		ENVIRO ABRASION, PUNE
60.	ACI FITTING & LINERS (CAT-I FOR FITTINGS)	CRAWLEY & RAY, KOLKATA
		NORTHERN ALLOY, BHAVNAGAR
		MENON METALLIC, KOLHAPUR
		PARAMOUNT CASTINGS, NAGPUR
		NATRAJ IRON & CASTINGS, DHANBAD
		CONCAST ENGINEERING, BURDWAN, WB
61	CASTABLE REFRACTORY	CALDERYS INDIA (ACE), KATNI
		MAHAKOSHAL REFRACTORIES, KATNI
		TATA REFRACTORIES, BELPAHAR
		BHASKAR REFRACTORIES, FARIDABAD
62.	METALLIC EXPANSION BELLOWS	MB METALLIC BELLOWS, CHENNAI
		SUR INDUSTRIES, KOLKATA
		LONE STAR, CHENNAI
63.	CHAIN PILEY BLOCK (UPTO 5T)	TRACTEL TIRFOR, FARIDABAD
		LIFTING EQUIPMENT & ACC, DELHI
		ARMSEL, BANGALORE
		HERCULES (INDEF), MUMBAI
64.	AIR DRYING UNIT (BHR TYPE) UPTO 900 M3/HR	INDCON, DELHI





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP - III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		TRIDENT, COIMBATORE
		MELCON, DELHI
		SUMMIT, COIMBATORE
		ATLAS COPCO, BELGIUM
		DELAIR, GURGAON
65.	VENTILATION FAN FOR BUILDING/ VENTILATION FOR SILO (CAT-I FOR CENTRIFUGAL FAN, CAT-II FOR AXIAL/EXHAUST FAN)	HYDERABAD POLLUTION CONTROL, HYDERABAD
		PATEL AIR TEMP, AHMEDABAD
		MARATHAN ELECTRIC, KOLKATA
		FLAKT, KOLKATA
		CB DOCTOR, AHMEDABAD
		ALMONARD, CHENNAI
		KHAITAN, KOLKATA
		DUSTVEN, BANGALORE
66.	BAG FILTER/VENT FILTER	THERMAX, PUNE
		RIECO, PUNE
		DCIPS, KOLKATA
		INDURE, SAHIBABAD
		MACAWBER BEEKAY, KASNA
		MBE, KUMARDHUBI
		FLAKT, KOLKATA
		ORIENT FANS, KOLKATA
67.	INSULATION	LLOYDS INSULATION CHENNAI WORKS AT ROCKWOOL BHILAI, BHILAI
		ROCKWOOL INDIA, MEDAK
		MINWOOL, RAJNANDGAON
68.	REFRIGERANT TYPE AIR DRYER	SUMMITS, COIBATORE
		ATLAS COPCO, BELGIUM
		MELCON, DELHI
		DELAIR, GURGAON
		TRIDENT, COIMBATORE
69.	QT ACTUATORS	ROTEX, MUMBAI
		ELOMATIC, PUNE
70.	SUBMERSIBLE PUMP	AQUA MACHINERIES, AHMEDABAD
		KBL, KONDHAPURI
		KSB, PUNE
		SU MOTORS, MUMBAI
		KISHORE PUMPS, PUNE
		DARLING PUMPS, INDORE



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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71.	PACKAGE AC	CARRIER, GURGAON
		BLUE STAR
		VOLTAS, THANE
72.	STRAINERS	GUJARAT OTOFILT, AHMEDABAD
		OTOKLIN FILTERS, MUMBAI
		MULTITEX, NOIDA
		GREAVES COTTON, MUMBAI
73.	AFTER COOLER	PARKAIRE, DELHI
		ABACUS HEAT TRANSFER, FARIDABAD
		INDCON, DELHI
		SUMMITS HYGRONICS, COIMBATORE
		MELLCON, DELHI
74.	SPRINKLER	EAGLE ENGINEERS, RAJKOT
		CHEMTROLS SAMIL, THANE
		SPRAYING SYSTEMS, BANGALORE
75.	AGITATOR	RATHI LIGHTENING, PUNE
		HOESCH (WITH SEW-FINLAND MAKE GEARBOX & WEG-BRAZIL MAKE MOTOR), GERMANY
76.	HOSE PUMP	VERDER, UK
77.	HCSD PUMP WITH SUCTION VESSEL, PULSATION DAMPENOR AND PUMP	WEIR MINERALS, NETHERLANDS
		ABEL, GERMANY
78.	HCSD SEAMLESS PIPES	YANTAI LUBAO STEEL – BAO STEEL GROUP (with Loyds inspection as per approved QP with stamping/identification of individual pipes for correlation.), CHINA
		MAHARASHTRA SEAMLESS, RAIGAD
		ISMT, BARAMATI
		ISMT, AHMEDNAGAR
		SUMITOMO METAL, JAPAN
79.	FORGED/FORMED FITTINGS	PIPEFIT, BARODA
		TUBE PRODUCTS, BARODA
		TRUE FORGE, FARIDABAD
		GUJARAT INFRAPIPES, BARODA
		SIDDHARTH & GAUTAM, FARIDABAD
		MS FITTING, KOLKATA
		NL HAZRA, KOLKATA
		EBY, MUMBAI

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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80.	CHARGE PUMP (BOOSTER PUMP)	WEIR MINERALS, BANGALORE
		INDURE, SAHAIBABAD
		SAM TURBO, COIMBATORE
81.	RUBBER LINING FOR MIXING TANK	RISHI INDUSTRIES, SONEPAT
		TEMSEC RUBBER, KOLKATA
		PRESIDENCY, KOLKATA
		JASMINO POLYMERTECH, TALOJA
		WESTERN RUBBER, NAVI MUMBAI

FDPS PACKAGE

Sl. No.	Item	SUB-SUPPLIERS PROPOSED
1.	HORIZONTAL CENTRIFUGAL PUMPS	KSB, PUNE
		M&P, PUNE
		VOLTAS, MUMBAI
		BEST AND CROMPTON, CHENNAI
		FLOW MORE, GHAZIABAD
		WORTHINGTON, GHAZIABAD
		SAM TURBO COIMBATORE
		SULZAR, MUMBAI
		KISHORE PUMP, PUNE
		KBL, KIRLOSKARWADI
2.	DIESEL ENGINE	GREAVES COTTON (R&H), PUNE
		CUMMINS, KOTHRUD/VIMAN NAGAR
		CATERPILLAR, USA
		ASHOK LEYLAND, CHENNAI
		KOEL, PUNE
3.	HYDRANT VALVE (SS)	SUKAN, AHMEDABAD
		SHAH BHOGILAL, AHMEDABAD
		NEWAGE INDUSTRIES, SURENDRA NAGAR
4.	SAFETY RELIEF VALVE	LEADER, JULLANDHER
		SPIRAX MARSHALL, PUNE
		FISHER SANMAR, CHENNAI
5.	STRAINER	OTOKLIN FILTERS INDIA, MUMBAI
		SAROJINI ENTERPRISE, HOWRAH
		GRAND PRIX, FARIDABAD
		MULTITEX, NOIDA
		GUJARAT OTOFILT, AHMEDABAD



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW)	
	TECHNICAL SPECIFICATION FOR EPC PACKAGE	

6.	CI BUTTER FLY VALVE (UPTO 500 NB PN 16, UPTO 900 NB PN 10)	INTER VALVE, PUNE
		WEIR BDK, HUBLI
		KIRLOSKER, KONDHAPURI
		R&D MULTIPLE, VALSAD
		IL, PALAKKAD
		CRANE PROCESS FLOW, SATARA
		POURESS ENGG, BANGALORE
		AUDCO, CHENNAI
		TYCO VALVES, BARODA
7.	CI GATE/CLOBE/ CHECK VALVE (UPTO 600 NB PN 16)	H SARKAR, HOWRAH
		BANKIM, KOLKATA
		KIRLOSKAR BROTHERS, KONDHAPURI
		A V VALVE, AGRA
		LEADER, JULLANDHER
8.	SS BUTTERFLY VALVE (UPTO 400 NB PN 10)	WEIR BDK, HUBLI
		FOURESS ENGG, BANGALORE
		IL, PALAKKAD
		INTER VALVE, PUNE
		CRANE PROCESS, SATARA
9.	SS GATE/CLOBE/ CHECK VALVE (UPTO 300 NB CL 300)	LEADER, JULLANDHER
		FOURESS ENGG, AURANGABAD
		WEIR BDK, HUBLI
		STEEL STRONG VALVE, NAVI MUMBAI
		HITECH, AHMEDABAD
		KSB WATER PUMPS AND VALVES, COIMBATORE
		BHEL, GOINDWAL
10.	SEAMLESS PIPE (FOR INERT GAS SYSTEM)	ISMT, AHMEDNAGAR/HARAMATI
		MAHARASHTRA SEAMLESS, RAIGAD
11.	MS PIPE (IS: 1239/IS:3589 UPTO 150 NB/900NB)	MUKAT TANKS AND VESSELS, TARAPUR
		SAIL, ROURKELA
		PSL, CHENNAI/VIZAG/KUTCH/DAMAN
		MAHARASHTRA SEAMLESS, RAIGAD
		RATNAMANI, KUTCH
		JINDAL, GHAZIABAD





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP – III : 1X250 MW)

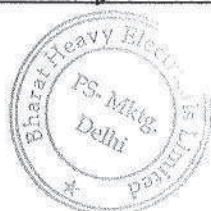


TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		SURYA ROSHNI, BAHADURGARH
		RATNAMANI, CHHATRAL
		JCO GAS PIPES, CHINDWARA
		PRATIBHA PIPES & STRUCTURE PVT. LTD, THANE
		LALIT PROFILE, THANE
		SURENDRA ENGG, RAJPURA
		SAMSHI PIPES INDUSTRIES, VADODARA
		MUKUT PIPES, RAJPURA
		INDUS TUBES, G B NAGAR
		MANN IND, INDORE
		TATA, JAMSHEDPUR
		WELSPUN, BHARUCH
		DADU PIPES, SIKRANDRABAD
		JINDAL INDUSTRIES LTD, HISSAR
		WELPSUN, ANJAR
12.	FIRE HOSE	BIS APPROVED SOURCES WITH VALID LICENCE
13.	WATER MONITOR	HD FIRE, JALGAON
		NEWAGE, SURENDRA NAGAR
		SHAH BHOGILAL, AHMEDABAD
14.	BRANCH PIPE, COUPLING& NOZZLE (SS & GM)	BIS APPROVED SOURCES WITH VALID LICENCE
15.	DELUGE VALVE WITH TRIMS	HD FIRE, THANE/JALGAON
		TYCO (GRINEEL), UK/USA
		UTC FIRE & SECURITY INDIA LTD, BANGALORE
16.	HV/MV SPRAY NOZZLE	HD FIRE, THANE
		TYCO (GRINEEL), UK/USA
		UTC FIRE & SECURITY INDIA LTD, BANGALORE
17.	QB DETECTOR	TYCO (GRINEEL), UK
		HD FIRE, THANE
		MINIMAX, GERMANY
18.	WARPPING & OATING MATERIAL	MP TAR PRODUCTS, BHILAI
		PORWAL INDUSTRIES, RAIPUR
		STP, JAMSHEDPUR
		RUSTECH, KOLKATA
19.	INERT GAS EXTINGUISHING SYSTEM (SUB-QR ITEM)	ANSUL, USA

	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		KIDDE (GINGEKERR), DANMARK
		MINIMAX GMBH & CO. KG, GERMANY
		TOTAL WALTHER, GERMANY
		NOHMI BOSAI, JAPAN
20.	GM VALVE	LEADER VALVES, JULLANDHER
		SANT VALVES, JULLANDHER
21.	FIRE EXTINGUISHER	BIS APPROVED SOURCES WITH VALID LICENCE
22.	FITTINGS (ASTM A 234/A 105/IS: 1239 PART 2)	NL HAZRA, KOLKATA
		GUJRAT INFRA PIPES, BARODA
		TUBE PRODUCTS, BARODA
		PIPEFIT ENGINEERS, BARODA
		MS FITTINGS, KOLKATA
		SIDDARTH & GAUTAM, FARIDABAD
		EBY, MUMBAI
		EDWARDS, USA
23.	SS ERW/SEAMLESS PIPES	APEX TUBES, BEHROR
		RATNAMANI, AHMEDABAD
		REMI, MUMBAI
		LEADER, JULLANDHER
		WEIR BDK, HUBLI
		KSB, COIMBATORE
24.	EOT CRANES (UPTO 10T/ELECTRIC HOISTS UPTO 10 T)	ARMSSELL, BANGALORE
		EDDY RCRANE, PUNE
		LIFTING EQUIPMENT, DELHI
		TRACTOR TRIFEL, PALVEL
		CONSOLIDATED HOIST PVT. LTD, SATARA/PUNE
		ALPHA SERVICES, BHIWADI
		TUOBRO FURGUSON INDIA PVT. LTD, KOLKATA
		MUKAND, THANE
		FAFCO, VADODARA/MUMBAI
		WMI, MUMBAI
		AVON CRANES, GURGAON
		MILLARS INDIA LTD, KARANSAD
		TISCO GROWTH, JAMSHEDPUR
		UNIQUE INDUSTIRAL HANDLERS, NASHIK





NTPC SAIL POWER COMPANY (P) LIMITED
ROURKELA POWER PROJECT
(PP - III : 1X250 MW)



TECHNICAL SPECIFICATION FOR
EPC PACKAGE

		ANUPAM INDUSTRIES LTD., V. U. NAGAR
		HEC, RANCHI
		CENTURY CRANE, PALWAL
		GRIP, FARIDABAD
		HERCULES HOIST, RAIGAD
		REVA INDUSTRIES, FARIDABAD
		GRIP, HYDERABAD
25.	CHAIN PULLEY BLOCK (UPTO 5 TONS)	TRACTEL TRIFEL, PALVEL
		ARMSELL, BANGALORE
		HERCULES (INDEF), RAIGAD
		ROBIN ENGG., KOLKATA
26.	MULTI PURPOSE NOZZLE	SHAH BHOGILAL, AHMEDABAD
		NEWAGE INDUSTRIES, SURENDRA NAGAR
27.	ALARM VALVE WITH TRIMS	HD FIRE, THANE/JALGAON
28.	PRESSURE REDUCING VALVE (PRV)	RAPHEAL VALVES (TYCO VALVES), ISREAL
		DARLING MUESCO, AHMEDABAD
29.	DIESEL ENGINE FOR FOAM PUMP (UPTO 20 HP)	GREAVES COTTON, PUNE
		KOEL, PUNE/RAJKOT

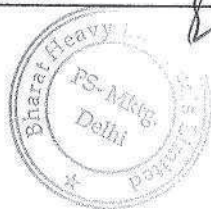
CW System

Sl. No.	Item	SUB-SUPPLIERS PROPOSED
1.	CW PUMP (CONCRETE VOLUTE TYPE VT PUMP)	KBL, KIRLOSKARWADI
		WPIL, KOLKATA
		XYLEM, VADODARA/USA
		FLOWSERVE, COIAMBATORE/NETHERLAND
2.	CW PUMP (METALLIC VOLUTE TYPE VT PUMP)	KBL, KIRLOSKARWADI
		WPIL, KOLKATA
		JYOTI LIMITED, VADODARA
		FLOWMORE LIMITED, GHAZIABAD
		XYLEM, VADODARA/USA
		FLOWSERVE, COIAMBATORE/NETHERLAND
3.	VT PUMPS- OTHER THAN CW PUMPS	KBL, KIRLOSKARWADI
		WPIL, KOLKATA
		JYOTI LIMITED, VADODARA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		FLOWMORE LIMITED, GHAZIABAD
		XYLEM, VADODARA
		FLOWSERVE, COIAMBATORE
4.	HORIZONTAL CENTRIFUGAL PUMPS	KBL, KIRLOSKARWADI
		WPIL, KOLKATA
		JYOTI LIMITED, VADODARA
		FLOWMORE LIMITED, GHAZIABAD
		XYLEM, VADODARA
		FLOWSERVE, COIAMBATORE
5.	SS IMPELLERS FOR CW PUMP	KBL, KIRLOSKARWADI
		THE KOLHAPUR STEEL LIMITED, KOLHAPUR
		HINDUSTAN UDYOG LIMITED, KOLKATA
		MATHERS FOUNDRY, UK
		HAUTE SAMBRE, FRANCE
6.	BOWL CASTING FOR CW SYSTEM	KBL, KIRLOSKARWADI
		THE KOLHAPUR STEEL LIMITED, KOLHAPUR
		HINDUSTAN UDYOG LIMITED, KOLKATA
		SIMPLEX, BHILLAI
7.	FORGINGS FOR SHAFT OF CW PUMPS, OTHER PUMPS, MUFF COUPLING	TALOR FORGINGS (BRITISH STEEL), UK
		MAHENDRA UGINE, KHOPOLI
		FOMAS, CHENNAI
		GORADIA STEEL, KHOPOLI
		BGH EDESTAHL, GERMANY
9.	CARDON SHAFT	MAINA, ITALY
10.	THRUST BEARING	MICHELL, UK
11.	COLUMN PIPES/DISCHARGE PIPE/INSERTS/SEGMENTAL FLANGES/OTHER FABRICATED ITEMS	APPROVED FABRICATORS OF MAIN SUPPLIER
12.	BUTTERFLY VALVES UP TO 2600 MM	KBL, KONDHAPURI
		FOURESS, BANGALORE
		TYCO, HALOL
13.	BUTTERFLY VALVES UP TO 1400 MM	KBL, KONDHAPURI
		FOURESS, BANGALORE
		TYCO, HALOL
		R&D MULTIPLE, VALSAD
14.	REJOINT	CORI, CHENNAI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		SRM EXOFLEX, KOLKATA
15.	HYDRAULIC ACTUATORS (POWER PACK)	REXROTH, VATVA
		PARKER HANIFEN, PUNE
16.	DUAL PLATE CHECK VALVE FOR AIR RELEASE VALVE	ADVANCE VALVE, NOIDA
		R&D MULTIPLE, VALSAD
18.	ISOLATION GATE VALVE FOR AIR RELEASE VALVE	LEADER, JALANDHAR
		R&D MULTIPLE, VALSAD
		BDK, CHENNAI
		H.SARKAR, KOLKATA
		BANKIM, KOLKATA
19.	AIR RELEASE VALVE	LEADER, JALANDHAR
		R&D MULTIPLE, VALSAD
		H.SARKAR, KOLKATA
		BANKIM, KOLKATA
20.	EOT CRANE/GANTRY CRANE	UNIQUE INDUSTRIAL HANDLER, NASIK
		WMI, MUMBAI
		FAFCO, KOLKATA
		ANUPAM, V V NAGAR
		REVA INDUSTRIES, FARIDABAD
21.	HOIST	CONSOLIDATED HOIST, PUNE
		HERCULES, MUMBAI
		REVA INDUSTRIES, FARIDABAD
		TRACTEL TIRFOR, PALWAL
		CENTURY CRANES, PALWAL
		ALPHA SERVICES, BHIWADI
		GRIP ENGINERS, FARIDABAD/HYDERABAD
22.	ROLLED AND WELDED PIPES/SPOOL PIECES/MITRE/Y PIECES	MAIN CONTRACTOR APPROVED SOURCES
23.	MS PIPE AS PER IS1239	JINDAL, GHAZIABAD
		TATA STEEL JAMSHEDPUR
		INDUS TUBE, CHHAPROLA
		JINDAL, HISAR
		DADU PIPES, SIKANDRABAD
		SURYA ROSHNI, BAHADURGARH
24.	MS PIPE AS PER IS3589	SAIL, ROURKELA
		JCO PIPE, CHINDWARA
		RATNAMANI, KUTCHH
		SAMSHI PIPES, VADODARA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		PSL, KUTCHH
		PRATIBHA PIPES AND STRUCTURALS, THANE
		MUKAT PIPES, RAJPURA
		MUKUT TANKS AND VESSELS, TARAPUR
		MANN INDUSTRIES LTD, INDORE
		PSL INTERNATIONAL, CHENNAI
		WELSPUN, BHARUCH
25.	PRESSURE FILTER, DUPLEX FILTER	GUJRAT OTOFILT, AHMEDABAD
		GRAND PRIX, NEW DELHI
		OTOKILN FILTERS, MUMBAI
		MULTITEX, NOIDA
		FILTRACTION ENGINEERS, MUMBAI
26.	WRAPPING AND COATING	PORWAL INDUSTRIES, RAIPUR
		RUSTECH, KOLKATA
		M P TAR PRODUCTS, KOLKATA
27.	SUMBERSIBLE PUMPS	WPIL, KOLKATA
		AQUA MACHINERIES, AHMEDABAD
		KISHOR PUMPS, PUNE
		KBL, KIRLOSKARWADI
		DARLING PUMP, INDORE
		FLOWMORE, GHAZIABAD
28.	FORM WORK	ASHMITA PATTERNS, V V NAGAR
		QUALITY PATTERNS, MUMBAI
	KNIFE EDGE VALVE	VAAS, CHENNAI
		ORBINOX, COIMBATORE
		FOURESS, THANE
	FQP (RECEIPT, STORAGE AND ERECTION)	

Make up water piping

Sl. No.	Item	SUB-SUPPLIERS PROPOSED
1.	SAW (SPIRAL WELDED) PIPES AS PER IS-3589 UYPTO 1200NB	MUKAT TANKS & VESSELS, TARAPUR
		MUKAT PIPES, RAJPURA
		ICO GAS PIPES, CHINDWARA
		PRATIBHA PIPES & STRUCTURAL, THANE
		PSL, CHENNAI



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP – III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		PSL, DAMAN
		SAIL*, ROURKELA
		PSL* VIZAG
		PSL*, VARSANA/GANDHIDHAM
		SAMSHI PIPE INDUSTRIES, VADODRA
		MAN INDUSTRIES, INDORE
		WELSPUN, BHARUCH
		WELSPUN, AJNAR
		RATNAMANI, CHHATRAL
		RATNAMANI, ANAJR
		LALIT PROFILE, KHARDI, MUMBAI
2.	GRP PIPES	GRAPHIT INDIA, NASIK
3.	JOINT/FITTING COATING MATERIAL FOR 3 LPE CATED MS PIPES (HEAT SHRINK SLEEVE)	BERRY PLASTIC, VADODRA
4.	JOINT/FITTING COATING MATERIAL APPLICATION AGENCY FOR 3 LPE CATED MS PIPES	ARC ENTERPRISES, PUNE
5.	CATHODIC PROTECTION	MITCORR, BARODA
		RAYCHEM RPG, THANE
		CAPITAL TEST SERVICES, DELHI
		CONSULTECH, BARODA
		CORRADD, MUMBA
6.	AIR RELEASE VALVE	H. SARKER, KOLKATA
		BANKIN & COMPANY, KOLKATA
		R&D MULTIPLE, VALSAD
		KBL, KONDHAPURI
8.	CI BUTTERFLY VALVE	WEIR-BDK, HUBLI
		FOURESS, BANGALORE
		TYCO, HALOL
		INTERVALVE, PUNE
		CRANE PROCESS, SATARA
		DEMBLA VALVE, THANE
		R&D MLLTIPLES, VALSAD
		KBL, KONDHAPURI
		IL, PALGHAT
		HAWA VALVE, AMEDABAD

Air Conditioning and ventilation system

Sl. No.	Item	SUB-SUPPLIERS PROPOSED
1.	SCREW CHILLER (SUB QR ITEM)	YORK INTERNATIONAL, USA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		CARRIER ASIA, SANGHAI, CHINA
		KIRLOSKAR CHILLER, SASWAD, PUNE
		DUNHAM-BUSH INDUSTRIES SDN-BHD, MALAYSIA
		TRANE, USA
2.	AIR WASHER & UAF	C DOCTOR, KOLKATA
		BLUR STAR, MUMBAI
3.	HORIZONTAL CENTRIFUGAL PUMPS	BEST & CROMPTON ENGG. LDT, AMBATTUR, CHENNAI
		KIRLOSKAR, KIRLOSKARWADI
		KSB PUMPS, PUNE
		MATHER & PLATT, PUNE/KOLHAPUR
		KIRLOSKAR PUMP PVT LTD., PUNE
		SAM TURBO, COIMBATORE
		WPIL, CHAZIABAD/KOLKATA
		FLOWMORE, GHAZIABAD
4.	COOLING TOWER	MIHIR ENGG, LTD., GANDHINAGAR
		PAHARPUR COOLING TOWER, KOLKATA
		PALTECH COOLING, SOHANA ROAD, GURGAON
		FLOW TECH AIR PVT LTD., NEW DELHI
5.	AIR HANDLING UNITS	ZECO, BAHADURGARH
		WAVE AIR CON LTD., BHIWADI
		VOLTAS LTD., DADRA
		CARRIER AIRCON, GURGAON
		BLUE STAR, THANE
6.	CENTRIFUGAL FANS	KRUGER, SINGAPORE
		SOLYVENT FLAKT, KOLKATA
		ALMONARD, CHENNAI
		PATEL AIRFLOW, AHMEDABAD
		CB DOCTOR, AHMEDABAD
		WOLTER INDIA, BHIWADI
		ANDREW YULE, KOLKATA
7.	AXIAL FLOW FANS	KHAITAN, KOLKATA
		MARATHON ELECTRIC, KOLKATA
		CB-DOCTOR, AHMEDABAD
		SOLYVENT FLAKT KOLKATA



	NTPC SAIL POWER COMPANY (P) LIMITED ROURKELA POWER PROJECT (PP - III : 1X250 MW) TECHNICAL SPECIFICATION FOR EPC PACKAGE	
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		KRUGER, SINGAPORE
		TCF NADI, CHENNAI
		ALMONARD, CHENNAI
8.	PROPELLER FAN (UP TO 2 HP)	KHAITAN, KOLKATA
		MARATHON ELECTRIC, KOLKATA
		CB-DOCTOR, AHMEDABAD
		SOLYVENT FLAKT KOLKATA
9.	CASSETTE/SPLIT AC/WINDOW AC	BLUE STAR
		VOLTAS
		HITACHI
		NATIONAL
		CARRIER
		DIAKIN
10.	FILTERS	SPECTRUM, KOLKATA
		PARKER HANIFFINS, BANGALORE
		PUROMATIC, OKHLA-DELHI
		AIR TECH, VASAI, MUMBAI
11.	PIPING-ERW	JINDAL, GHAZIABAD
		TISCO, JAMSHEDPUR
		SAIL, ROURKELA
		SURYA ROSHNI, BAHADURGARH
		WELSPAN, ANJAR
		MSL, RAIGAD
		INDUS TUBE, G.B.NAGAR
		JINDAL INDUSTRIES, HISSAR
		DADU PIPES, SIKANDRABAD
12.	GI SHEETS	JINDAL STEEL,
		SAIL
		TISCO
		RINL
13.	CI BUTTERFLY VALVES	WEIR-BDK, HUBLI
		FOURESS, BANGALORE
		TYCO, HALOL
		INTERVALVE, PUNE
		CRANE PROCESS, SATARA
		DEMBLA VALVE, THANE
		R&D MLLTIPLES, VALSAD
		KBL, KONDHAPURI
14.	MOTORIZED BUTTERFLY VALVES WITH SINGLE PHASE ACTUATOR	SIEMENS BT, GERMANY
15.	BALANCING VALVES	ADVANCE VALVE, UNA (HP)

