



TITLE:

**TECHNICAL SPECIFICATION FOR
CONDENSATE POLSING UNIT
MAHARASHTRA STATE POWER GEN.CO.LTD
KORADI EE R&M UNIT 6**

SPEC NO: RM-TS-958-155A-A001

VOLUME: II-B

SECTION: C1

REV NO: 00

DATE:

ANNEXURE-II

SUB-VENDOR LIST (INDICATIVE)



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SNo	ITEM	SUPPLIERS	PLACE	REMARKS
1	POLISHER VESSELS	R&C	MUMBAI	WITH LLOYDS APPD HEAT TREATMENT AGENCY
		ISGEC	YAMUNANAGAR	
		ANUP ENGG.	AHMEDABAD	
2	ACTIVATED CARBON	INDUSTRIAL CARBON	ANKLESHWAR	
		VVD & SONS	TUTICORIN	
3	AIR BLOWERS	SWAN PNEUMATIC	NOIDA	UPTO 15 BHP
		EVEREST TRANSMISSION	NEW DELHI	
		KAY INTERNATIONAL	NEW DELHI / SONEPAT	
		EVEREST BLOWER	BAHADURGARH	
		KPT	PUNE	
4	METERING PUMPS (DIAGRAPHGRAM TYPE)	VK PUMPS	NASIK	
		MILTON ROY INDIA	CHENNAI	
		SWELLORE	AHMEDABAD	
5	AGITATOR	REMI PEOCESS PLANT & M/C	MUMBAI	
		FIBRE & FIBRE	MUMBAI / SILVASA	
6	HORIZONTAL CENTRIFUGAL PUMPS	KBL	WADI	
		MATHER & PLATT	PUNE	
		KSB	PUNE	
		SAM TURBO IND LTD	COIMBATORE	
		KISHOR PUMPS	PUNE	
		SULZER PUMP INDIA	PUNE	
		WPIL	GHAZIABAD	
7	HORIZONTAL CENTRIFUGAL PUMPS (RUBBER LINED)	KISHOR PUMPS	PUNE	
		SU MOTORS	MUMBAI	
8	MISC. PUMP VERTICAL TURBINE	KBL	PUNE	
		M&P	PUNE	
		WPIL	GHAZIABAD	
		JYOTI PUMPS	VADODRA	
		VOLTAS	PUNE	
9	RESIN TRAP ELEMENT FOR SERVICE AREA	JHONSONS SCREEN	AUSTRALIA	
	UNDER BED NOZZLE FOR CPU VESSEL	JONSONS SCREEN	AUSTRALIA	
10	RESIN	ROHM & HASS	FRANCE.	
		BAYERS	GERMANY.	
11	HEATER	ESCORTS	FARIDABAD	
		RACOLDS	FARIDABAD	
12	CCS VALVES	LEADER ENGG WORKS	JALANDHAR	
		FOURESS ENGINEERING	AURANGABAD	
		KSB	COIMBATORE	
		BDK	HUBLI	
		AUDCO	CHENNAI	
		KBL	PUNE	



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		KBL	KONDHAPU	
13	BALL VALVE (NON FIRE SAFE TYPE)	PEC	NASIK	
		FLOWCHEM	AHEMDABAD	
		BDK	HUBLI	
		AUDCO	CHENNAI / KANCHIPURAM	
		MICROFINISH VALVES	HUBLI	
		AK INDUSTRIES	HUBLI	
		LEADER	JALANDHAR	
14	ANGLE VALVE	VELAN INC	CANADA	
		IL	PALGHAT	
		REINEKE	GERMANY	
		SAMPELL AG	GERMANY	
15	HIGH PRESSURE BUTTERFLY VALVE / CONTROL VALVE	DeZURICK (Upto 400 NB)	USA	
		TYCO (UPTO 450 NB)	USA	
16	BALL VALVE (HIGH PRESSURE)	VELAN	CANADA	
17	SS BALL VALVE 150 LBS	BDK	HUBLI	
		AUDCO	CHENNAI	UPTO 200 NB
		MICRO FINUISH	HUBLI	UPTO 40 NB
		BRAY	CHINA	
18	BUTTER-FLY VALVE (MANUAL / PNEUMATIC) UPTO 200 CLASS 150	AUDCO	CHENNAI	
		DAMBALA VALVES	THANE	
		BDK VALVES,	HUBLI	
		CRANE FLOW PROCESS	SATARA	
19	DUAL PLATE TYPE NON-RETURN VALVE (SS & CI UPTO 100 NB, CLASS 150)	ADVANCE VALVES	NOIDA	
		BDK VALVES,	HUBLI	
		R& MULTIPLES	VALSAD	
20	DIAPHRAGM VALVE (MANUAL / PNEUMATIC) UPTO 80 NB	BDK	HUBLI	
		CRANE FLOW PROCESS	SATARA	
21	GATE / GLOBEVALVES UP TO 300 NB PN 10	LEADER	JALANDHAR	
		H SARKAR	HOWRAH	
		BANKIM & COMPANY	HOWRAH	
	CHECK VALVE / NRV (LINED / UNLINED), FLAP TYPE SIZE UPTO 50 NB	MAJESTIC WORKS	MUMBAI	
		BDK	HUBLI	
		H SARKAR	HOWRAH	
		LEADER (FOR CHECK VALVE ONLY)	JALANDHAR	
22	Y-TYPE STRAINER / STRAINER (WATER SERVICE)	OTOKLIN	MUMBAI	
		GRAND PRIX	NEW DELHI	
		JAYPEE	NEW DELHI	
		GREAVES COTTON	MUMBAI	
		MULTITEX	NEW DELHI / NOIDA	
23	MS PIPES (IS: 1239 & 3589)	SAIL	ROURKELA.	
		JINDAL TUBES	GAZIABAD	UPTO 350 NB
		SURYA ROSHINI	BHADURGARH	UPTO 300 NB
		TISCO	JAMSHEDPUR	UPTO 150 NB



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		WELSPUN	ANJAR	UPTO 400 NB
		MSL (FOR IS 3589)	RAIGAD	200 NB TO 500 NB
24	SS PIPES (ERW / SEAMLESS) UPTO 100 NB	RATNAMANI	CHATTRAL	
		REMI	TARAPUR	
		APEX TUBES PVT LTD (Approved for SS welded pipes up to 150 NB & 4.78 mm thick as per ASTM A 312 & seamless pipe up to 50 NB as per ASTM A 312)	BEHROR (ALWAR)	
25	CS PIPE (ASTM A 106 GR. B) UPTO 400 NB	INDIAN SEAMLESS METAL TUBES	AHMEDABAD	UPTO 150 NB
		MAHARASHTRA SEAMLESS	RAIGAD	UPTO 350 NB
26	VERTICAL TURBINE PUMPS	KBL	KILOSKARWADI	
		WPIL LTD	KOLKOTA	
		SAM INDUSTRIAL PUMPS	COIMBATORE	
		FAIR BANK MORSE/FLOW MORE	SAHIBABAD	
		KISHORE PUMPS	PUNE	
27	PLC	ABB	BANGLORE	
		GE FANUC	BANGLORE	
		L & T LTD	MUMBAI	
		ROCKWELL	GHAZIABAD	
		SIEMENS	NASIK	
		SCHNEIDER ELECTRIC	NEW DELHI	
28	CONTROL VALVE	CONTROL COMPONENT INC	USA	
		DRESSER	COIMBATORE	
		FISHER XOMOS	CHENNAI	
		FISHER CONTROLS	UK/ USA	
		DRESSER MESONILAN	FRANCE	
		WEIR VALVES	UK	
		IL	PALGHAT	
		MIL CONTROLS	ALWAYE	
		NIPPON FISHER	JAPAN	
		COPE VALCUN	UK	
29	LEVEL GAUGE	EMERSON	FRANCE	
		LEVCON	KOLKATA	
		SBEM	PUNE	
		SIGMA	MUMBAI	
		V. AUTOMAT	NEW DELHI	
		PUNE CONTROL	PUNE	
		CHEMTROLS	GOA	
		DK INSTRUMENTS	KOLKATA	
		SCIENTIFIC DEVICES	MUMBAI	
30	LEVEL SWITCH (FLOAT / DISPLACER TYPE)	DK INSTRUMENTS	KOLKATA	
		LEVCON	KOLKATA	
		TRAC	HYDERABAD	
		SIGMA	MUMBAI	
		SBEM	PUNE	
		V. AUTOMAT	NEW DELHI	



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		PUNE CONTROL	PUNE	
31	LEVEL SWITCH (RF TYPE / CAP TYPE)	EIP BULK CONTROLS	NOIDA	For RF type
		LEVCON	KOLKATA	For Capacitance type only
		EIP ENVIRO CONTROL	HYDERABAD	For RF type
		NIVO CONTROL	INDORE	For Capacitance type only
		SBEM	PUNE	For Capacitance type only
		MAGNETRO	BELGIUM	
		PUNE CONTROL	PUNE	For Capacitance type only
32	LEVEL TRANSMITTER (CAPACITANCE TYPE)	E&H	GERMANY	
		LEVCON	KOLKATA	
		PUNE TECHTROL	PUNE	
		MAGNETROL	BELGIUM	
		NIVO CONTROL	INDORE	
		SBEM	PUNE	
		WIKI	PUNE	
33	LEVEL TRANSMITTER (GUIDED WAVE RADAR)	K TECH	USA	
		E&H	GERMANY	
		EMERSON (SAB ROSEMOUNT)	SWEDEN	
		MAGNETROL	BELGIUM	
		EMERSON	DAMAN	
		CHEMTROL	GOA	
34	LEVEL TRANSMITTER (ULTRASONIC TYPE)	KAB INSTRUMENTS	SOUTH AFRICA	
		SIEMENS MILLTRONICS	CANADA	
		K TECH	USA	
		E&H	GERMANY	
		KRISTLER MORSE	USA	
		EMERSON	USA / DAMAN	
35	PRESSURE / DP / TEMP SWITCH	GAUGES BOURDON (I)	MUMBAI	FOR PRESSURE SWITCH ONLY
		INDFOS	GHAZIABAD	UPTO 40KG/CM2, NOT FOR VACUUM APPLICATIONS
		SWITZER	CHENNAI	UPTO 40KG/CM2, (EXCEPT 900 SERIES PRESSURE SWITCH & AND NOT FOR VACUUM APPLICATIONS)
		TREFAG	RANIPET	
36	SILICA ANALYSER	POLYTRON / HACH ULTRA	FRANCE	
		ABB	UK	
		HACH	USA	



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37	SODIUM ANALYSER	POLYTRON / HACH ULTRA	FRANCE	
		ABB	UK	
		ORION	USA	
		SWAN	USA / EUROPE	
38	ANALYTICAL INSTRUMENTS	HACH (POLYMETRON)	FRANCE	
		ABB	UK / USA / FARIDABAD	
		EMERSON	USA / DAMAN	
39	PRESSURE GUAGE	A.N.INST	NARENDRAPUR	
		GENERAL INST CONSORTIUM	MUMBAI / GOA	
		GLUCK	MUMBAI	
		GOA THERMOSTATIC	GOA	WITH IMPORTED BOURDON TUBE FOR PRESSURE GAUGE
		MANOMETER	MUMBAI	
		WIKI	PUNE	
40	PRESSURE / DP TRANSMITTER	EMERSON PROCESS MANAGEMENT	USA / DAMAN	
		FUJI ELECTRIC	JAPAN	
		HONEYWELL	USA	
		YOKOGAWA	JAPAN	
		ABB	ITALY / FARIDABAD	
41	TEMPERATURE GUAGE	A.N.INST	KOLKATTA	
		WIKI	PUNE	
		H.GURU (SI) PVT LTD	BANGLORE	
		GIC	GOA / MUMBAI	
		GOA THERMOSTATIC INST	GOA	
42	FLOW ELEMENT	BRISTOL BABCOCK	UK	
		BALIGA LIGHTING EQUIP	CHENNAI	
		ENGINEERING SPECIALITIES	KOLKATA	
		IL	PALGHAT	
		MICRO	FARIDABAD	
		STAR-MECH	PUNE	
43	TEMPETAURE ELEMENT	GENERAL INST CONSORTIUM	NEW DELHI	
		DETRIVE INST & ELECTRONICS	MUMBAI	
		PYRO ELECTRIC	GOA	
		TOSHNIWAL BROS	NEW DELHI	
		WAAREE INST	MUMBAI	
44	TEMPERATURE SWITCH	INDFOSS	GHAZIABAD	
		DRESSER	USA	
		SWITZER	CHENNAI	
		SOR INC	USA	
		TOSHNIWAL BRO	NEW DELHI	
		VASU TECH	NEW DELHI	
45	SIGHT FLOW INDICATORS	BLISS ANAND	GURGAON	
		CHEMTROLS	MUMBAI	



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		INSTRUMENTATION ENGINEERS	HYDERABAD	
		SIGMA	MUMBAI	
		TELACE E QUIP	CHENNAI	
46	INST PIPE FITTINGS	AURA INCORPORATED	NEW DELHI	
		HYD-AIR ENGG	MUMBAI	
		METPRESS ENGG	KOLKATA	
		PRECISION ENGG	MUMBAI	
		SWITZER INST	CHENNAI	
		VIKAS INDUSTRIAL	NOIDA	
47	DP SWITCH	KAUSTUBA UDYOG	PUNE	
		SWITZER	CHENNAI	
		SOR INC	USA	
		VASU TECH	REWARI	
48	ANUBAR	ENDRESS+HAUSER GmbH +Co.KG	SWITZERLAND	
		SWITZER	CHENNAI	
		STAR-MECH	PUNE	
49	CONTROL PANEL	PROCON INST	CHENNAI	
		CONTROL & SWGR CO	NOIDA	
		INDUSTRIAL CONTROLS & APPS	MUMBAI	
		PYROTECH	UDAIPUR	
		ELECMECH	AHEMDABAD	
		POSITRONICS	BARODA	
50	JUNCTION BOXES	BALIGA LIGHTING EQUIP	CHENNAI	
		CREATIVE INST	BANGLORE	
		DEVI POLY	CHENNAI	
		INFO CONTROL	BANGLORE	
		K.S.INTRUMENTS	BANGLORE	
		MANISHA ENTERPRISE	PUNE	
		SUCHITRA INDUSTRIES	BANGLORE	
51	INST TUBE FITTINGS	AURA INCORPORATED	NEW DELHI	
		HYD-AIR ENGG	MUMBAI	
		METPRESS ENGG	KOLKATA	
		PRECISION ENGG	MUMBAI	
		SWITZER INST	CHENNAI	
		VIKAS INDUSTRIAL	NOIDA	
52	ROTAMETERS / ORIFICE ASSEMBLY (BYPASS / DOL)	TRAC	HYDERABAD	
		EUREKA IND	PUNE	
		IEPL	HYDERABAD	
		PLACKA	CHENNAI	
		SCIENTIFIC DEVICES	MUMBAI	
		FLOWSTAR	FARIDABAD	
53	INSTRUMENT CABLE	DELTON CABLES	FARIDABAD	
		PARAMOUNT CABLES	KHUSKHERA	



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		RELIANCE	BANGLORE	
		POLYCAB	DAMAN	
		UNIVERSAL CABLES	SATNA	
		NICCO	KOLKATTA	
		CORDS	BHIWADI	
		INCAB	PUNE	
54	SCREENED INSTRUMENT CABLE – PVC / FRLS	PARAMOUNT CABLES	KHUSKHERA	
		POLYCAB	DAMAN	
		RELIANCE	BANGLORE	
		DELTON CABLES	FARIDABAD	
		CORDS	BHIWADI	
		UNIVERSAL CABLES	SATNA	
		INCAB	PUNE	
		NICCO CORPORATION LIMITED	KOLKATTA	
55	BATTERY	HBL NIFE POWER SYSTEM LTD	HYDERABAD	
		HOPPECKE	GERMANY	
		AMCO SAFT	BANGLORE	
		EXCIDE INDUSTRIES	KOLKATA	
56	BATTERY CHARGER	BHARTIA CUTLLER	-----	
		CALDYNE	KOLKATA	
		AMAR RAJA POWER SYSTEM PVT	TIRUPATI	
		DUBAS	BANGLORE	
		HBL NIFE	HYDERABAD	
		CHHABI ELECTRICALS PVT LTD	JALGAON	
57	CABLE LUGS	CHETNA	MUMBAI	
		DOWELL	MUMBAI	
		ELECTRO BILLETS (3D)	VALSAD	
58	SOLENOID VALVE	ROTEX AUTOMATION	BARODA	
		AVCON	MUMBAI	
		ASCO	CHENNAI	
59	EIP CONVERTER OR I/P CONVERTOR	NORGREN(WATSON SMITH	UK	
		EMERSON	PAWANE	
		ABB	FARIDABAD	
60	SAFETY SHOWER	UNICARE	MUMBAI	
61	LT MOTOR	CGL	AHMEDNAGAR	
		KEC	BANGALORE / HUBLI*	*UPTO 90KW
		JYOTI	VADODARA	
		NGEF	BANGALORE	UPTO 15 KW
		LHP	SOLAPUR	UPTO 120 KW
		ABB	FARIDABAD* / BANGALORE	* UPTO 55 KW



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		SIEMENS	MUMBAI	
		BHARAT BIJLEE	MUMBAI	UPTO 160 KW
		MARATHON	KOLKATA	600 KW



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INDICATIVE LIST OF SUB VENDOR (CONTINUED)



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1	Air Filter Regulator	JRU INSTRUMENTS (formerly PLACKA),CHENNAI
		SHAVO NORGREN (INDIA) PVT LTD, INDIA
2	Bypass Rotometer	EUREKA, PUNE
		FLUIDYNE INSTRUMENTS, MUMBAI
		IEPL, HYDERABAD
		PLACKA INSTRUMENTS INDIA PVT LTD,CHENNAI
		TRAC, HYDERABAD
3	CO Analyser	CODEL INTERNATIONAL LTD,UK
		LAND INSTRUMENTS INTERNATIONAL, UK
		SICK GMBH, GERMANY
4	Coal Bunker Level Monitoring System (Strain Guage type)	KISTLER MORSE (VENTURE MEASUREMENT) USA/ INDIA
		RAMSAY TECH. INC. AUSTRALIA / USA
5	Coal Bunker Level Monitoring System (Ultrasonic type)	ABB / K TEK , SOUTH AFRICA / INDIA
		E & H, GERMANY / INDIA
		SIEMENS, CANADA / VASUNDHARA AUTOMATION, INDIA
		ASTEC VALVES & FITTINGS PVT LTD, THANE
		AURA INC, NEW DELHI /Faridabad
		EXCEL HYDRO-PNEUMATICS PVT LTD, MUMBAI
		FLUID CONTROLS, MUMBAI

Sl. no	Item Description	Vendor Name
6	Compression Fittings	HP VALVES AND FITTINGS, CHENNAI
		METPRESS ENGINEERING WORKS, KOLKATA
		PANAM ENGINEERS, MUMBAI
		PARKER HANNIFIN, USA
		PRECISION ENGG INDUSTRIES, MUMBAI
		Arya Crafts and Engineering Mumbai
		Prime Engineers, Mumbai
		SWAGELOCK, USA
7	Condensate Pots	BALDOTA VALVE AND FITTING CO PVT LT, MUMBAI
		EXCEL HYDRO-PNEUMATICS PVT LTD, MUMBAI
		FLOWTECH, KOLKATA
		INSTRUMENTATION LIMITED, PALGHAT
		METPRESS ENGINEERING WORKS, KOLKATA
		MICROPRECISION, FARIDABAD
		PRECISION ENGG INDUSTRIES, MUMBAI



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8	Dust density monitor	CODEL INTERNATIONAL LTD,UK
		DURAG GMBH AND CO KG
		FORBES MARSHAL CODEL .PUNE
		LAND INSTRUMENTS INTERNATIONAL, UK
		SICK GMBH, GERMANY
9	Electric-Pneumatic Convertor	FAIRCHILD USA
		MTL INDIA PVT LTD (Watson Smith UK Make)
		WATSON SMITH LTD / IMI Norgren UK
10	Flow Switch	GENERAL INSTRUMENTS CONSORTIUM, GOA/MUMBAI
		KROHNE MARSHALL PUNE
		SWITZER INSTRUMENT CO, CHENNAI
11	Impulse pipes	BHARAT HEAVY ELECTRICALS LTD, TRICHY
		CHOKSI TUBE COMPANY LIMITED, INDIA
		HEAVY MEATAL TUBES, AHMADABAD
		INDIAN SEAMLESS METAL TUBES LTD, INDIA
		JINDAL SAW PIPES LTD, INDIA
		MAHALAKSHMI SEAMLESS, MAHARASHTRA
		MAHARASHTRA SEAMLESS LTD, MAHARASHTRA
		MANNESEMAN AG, GERMANY
		RATNAMANI METALS & TUBES LTD, AHMADABAD
		SUMITOMO CORPORATION, JAPAN / KAWASAKI / NIPPON
		SURAJ STAINLESS STEEL LTD, AHMEDABAD
		TPS TECHNITUBE ROHREN WERKE GMBH, GERMANY
		TROUVAY CAUVIN GULF E C, DUBAI
		Shubhalakshmi Metals and Tubes, Mumbai
12	Instrument Valves	AURA INC, NEW DELHI/Faridabad
		BALDOTA VALVE AND FITTING CO PVT LT, MUMBAI
		BHARAT HEAVY ELECTRICALS LTD, TRICHY
		EXCEL HYDRO-PNEUMATICS PVT LTD, MUMBAI
		HP VALVES AND FITTINGS, CHENNAI
		HYDAIR ENGG WORKS, LONAVAL
		INSTRUMENTATION LIMITED, PALGHAT
		METPRESS ENGINEERING WORKS, KOLKATA
		PRECISION ENGG INDUSTRIES, MUMBAI



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13	Impact Head type Element	DETREICH/EMERSON PROCESS, USA
		STARMECH, PUNE
		SWITZER INSTRUMENT CO. CHENNAI
		VERIS INC. USA
14	Level Gauge	CHEMTROLS ENGG. (PVT) LTD., MUMBAI
		DK INSRTUMENTS, KOLKATA
		LEVCON INSTRUMENTS P LTD, KOLKATA
		S.B.ELECTRO-MECHANICALS PVT LTD, PUNE
		SIGMA INSTRUMENTS COMPANY, MUMBAI
		V.AUTOMAT&INSTRUMENTS PVT LTD,INDIA
15	Level Switch Float Type	CHEMTROLS SAMIL, MUMBAI
		DK INSRTUMENTS, KOLKATA
		LEVCON INSTRUMENTS P LTD, KOLKATA
		S.B.ELECTRO-MECHANICALS PVT LTD, PUNE
		SIGMA INSTRUMENTS COMPANY, MUMBAI
		V.AUTOMAT&INSTRUMENTS PVT LTD,INDIA
16	Level Switch Conductivity Type	LEVELSTATE, UK & its representative HI-TECH, KOLKATA supplying 'stand pipe with valves'
		SOLARTON / MOBREY, UK & its representative RAMAN INSTRUMENTS,MUMBAI supplying 'stand pipe with valves'
17	Level Switch Capacitance Type	DK INSRTUMENTS, KOLKATA
		LEVCON INSTRUMENTS P LTD, KOLKATA
		S.B.ELECTRO-MECHANICALS PVT LTD, PUNE
		V.AUTOMAT&INSTRUMENTS PVT LTD,INDIA
8	LIE/LIR	CHEMIN CONTROLS, PONIDCHERRY
		FORBES MARSHAL, PUNE
		INSTRUMENTATION LIMITED, KOTA
		PRAMMEN INDUSTRIES
		PYROTECH, UDAIPUR
		PROCON CHENNAI



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19	Oxygen analyser (LT)	ABB,UK with M/s ABB,INDIA supplying indigenous components.
		AMETEK P AND AI DIVISION, SINGAPORE /USA with its partner ICE,Mumbai supplying indigenous components.
		EMERSON PROCESS MANAGEMENT,USA with EPM,INDIA supplying indigenous components
		ENOTEC GMBH, GERMANY with FORBES MARSHALL,PUNE supplying indigenous components
		TELEDYNE, USA with STEAM EQUIPMENTs supplying indigenous components
		YOKOGAWA,JAPAN with YOKOGAWA,BANGALORE supplying indigenous components
20	Oxygen analyser (HT)	MARATHON MONITORS,USA
		SECO, CHENNAI
21	Pressure Gauges	A N INSTRUMENTS PVT LTD. KOLKOTTA,
		ASHCROFT INDIA (earlier PRECISION INDUSTRIES, AHMADABAD)
		FORBES MARSHALL LTD, HYDERABAD
		GENERAL INSTRUMENTS CONSORTIUM, GOA/MUMBAI
		GLUCK, MUMBAI
		GOA THERMOSTATIC INSTRUMENTS, GOA
		H.GURU INSTRUMENS (SOUTH INDIA), B'LORE
		MANOMETER, MUMBAI
		ODIN, AHMADABAD / CHENNAI
		WAAREE INDUSTRIES, MUMBAI
		WALCHAND INDUSTRIES LTD., DHARWAD
22	Pressure switch	WIKA, INDIA
		ASHCROFT INDIA (earlier PRECISION INDUSTRIES, AHMADABAD)
		GIC MUMBAI
		INDFOS INDUSTRIES LTD, GAZIABAD
		SOR INC, USA
		SWITZER INSTRUMENT CO, CHENNAI
		TRAFAG-INDIA, RANIPET
		WAREE, VAPI



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23	SO ₂ -NO _X / CO/CO ₂ Analyser, Extractive / Sampling type (Note:- Measurement Components are Project Specific)	ABB GERMANY WITH PANELS FROM ABB FARIDABAD / BANGALORE
		EMERSON PROCESS MANAGEMENT WITH PANELS FROM EPM INDIA
		FUJI ELECTRIC, JAPAN WITH M/s A I C., KOTA FOR SHS
		MAIHAK AG, WITH PANELS FROM CHEMTROLS MUMBAI
		SIEMENS GERMANY, with panels from ADAGE, MUMBAI
		YOKOGAWA WITH PANELS FROM YIL BANGALORE
24	SO ₂ -NO _X /CO/CO ₂ Analyser, Insitu type (Note: - Measurement Components are project Specific)	CODEL INTERNATIONAL LTD,UK with FORBES MARSHALL, PUNE (for indegenous components)
		PROCAL, UK with ICE, MUMBAI (for indegenous components)
		SICK GMBH, GERMANY with CHEMTROL,PUNE (for indegenous components)
25	SO ₂ -NO _X /CO Analyser Dilution Probe - Sampling type (Note:- Measurement Components are Project Specific)	OPSIS AB SWEDEN, with System Integration and Sample handling from NEVCO ENGINEERS, CHENNAI
		TELEDYNE, USA, with System Integration and Sample handling from CHEMTROLS, MUMBAI / GOA
26	Socket Weld Fittings	AURA INC, NEW DELHI / Faridabad
		BALDOTA VALVE AND FITTING CO PVT LT, MUMBAI
		EXCEL HYDRO-PNEUMATICS PVT LTD, MUMBAI
		FLOWTECH, KOLKATA
		HP VALVES AND FITTINGS, CHENNAI
		METPRESS ENGINEERING WORKS, KOLKATA
		PANAM ENGINEERS, MUMBAI
		PRECISION ENGG INDUSTRIES, MUMBAI
		V.K.INDUSTRIES,BANGALORE
		Arya Crafts and Engineering Mumbai
		Prime Engineers, Mumbai
		VIKAS INDUSTRIAL PRODUCTS, NEW DELHI



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27	Sight Flow indicator	CHEMTROLS SAMIL, MUMBAI
		LEVCON INSTRUMENTS P LTD, KOLKATA
		V.AUTOMAT & INSTRUMENTS PVT LTD, INDIA
28	SWAS system with selected analysers from Rosemount Analytical / Hach Ultra-France, Orion- USA, Hach- USA, ABB-UK, Polymetron- France / Zellwegger - Analyticals)	ABB LTD, Bangalore
		EMERSON PROCESS MANAGEMENT INDIA PVT
		FORBES MARSHALL LTD, PUNE
		INSTRUMENTATION LIMITED, KOTA
	SWAS system for TP $\leq$ 120 MW with selected analysers from Yokogawa - Japan, Hach-USA & Orion-USA)	YOKOGAWA, INDIA / JAPAN
29	Temperature Gauge	SWAS system for TP $\leq$ 120 MW with selected analysers from Honeywell - USA & Waltron-USA)
		HONEYWELL, PUNE
30	Temperature Switch	A N INSTRUMENTS PVT LTD, KOLKOTTA.
		ASHCROFT INDIA
		FORBES MARSHALL, HYDERABAD
		GENERAL INSTRUMENTS CONSORTIUM, GOA/MUMBAI
		GOA THERMOSTATIC INSTRUMENTS, GOA
		H.GURU INSTRUMENS(SOUTH INDIA), BANGALORE
		WAREE, DADRA
31	Thermocouple / RTD	WIKA, INDIA
		GENERAL INSTRUMENTS CONSORTIUM, GOA/MUMBAI
		INDFOS INDUSTRIES LTD, GAZIABAD
		SWITZER INSTRUMENT CO, CHENNAI
		DETRIVE, MUMBAI
		GENERAL INSTRUMENTS CONSORTIUM, GOA/MUMBAI
		INDUSTRIAL INSTRUMENTS, KOLKATA
		PYRO ELEC INSTRUMENTS GOA P LTD
		TEMPSSENS INSTRUMENTS (I) PVT LTD, UDAIPUR
		Techno Instruments Kalol



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32	Valve Manifolds	ASTEC VALVES & FITTINGS PVT LTD,THANE
		AURA INC, NEW DELHI/Faridabad
		BALDOTA VALVE AND FITTING CO PVT LT, MUMBAI
		EXCEL HYDRO-PNEUMATICS PVT LTD, MUMBAI
		FLOWTECH, KOLKATA
		HP VALVES AND FITTINGS, CHENNAI
		HYDAIR ENGG WORKS, LONAVAL
		METPRESS ENGINEERING WORKS, KOLKATA
		PRECISION ENGG INDUSTRIES, MUMBAI
		Arya Crafts and Engineering Mumbai Prime Engineers, Mumbai
33	Vibration Monitoring System	GE-ENERGY(BENTLY NEVADA),USA/GEIPL, INDIA
		MEGGITT SA, SWITZERLAND / MEGGITT INDIA PRIVATE LTD.
		ROCKWELL AUTOMATION, USA / INDIA
		SHINKAWA, JAPAN / FORBES MARSHALL, PUNE
		SKF,USA/INDIA
C BOUGHT OUT PRODUCTS - ELECTRICAL ITEMS		
1	Large size UPS & ACDB (= 160 KVA)	EMERSON NETWORK (formerly TATA-LIEBERT), MUMBAI
		HITACHI-HIREL ELECTRONICS, GANDHINAGAR
		KELTRON,TRIVENDRUM
		GUTOR, SWITZERLAND
2	Medium size UPS & / or ACDB (< / = 120 KVA)	AEG (SAFT)GERMANY / SINGAPORE
		EMERSON NETWORK (formerly TATA-LIEBERT), MUMBAI
		GUTOR,SWITZERLAND
		HITACHI-HIREL ELECTRONICS, GANDHINAGAR
3	24 V DC Thyristor based Battery Charger & DCDB	KELTRON,TRIVENDRUM
		AMARARAJA, TIRUPATI.
		CHLORIDE POWER SYSTEMS & SOLUTIONS LTD
		CHIHABI ELECTRICALS, JALGAON.
		M/S STATCON POWER CONTROLS, NOIDA
4	24 V DC SMPS based Battery Charger & / or DCDB	HBL POWER SYSTEMS,HYDERABAD
		MASTECH,MUMBAI
		AMARARAJA, TIRUPATI.
		CHIHABI ELECTRICALS, JALGAON.
		CHLORIDE POWER SYSTEMS & SOLUTIONS LTD.
5	Ni-Cd Battery for UPS and Charger	M/S STATCON POWER CONTROLS, NOIDA
		ELTEK-SGS VALERE POWER ,GURGAON
		MASTECH,MUMBAI
		AMCO SOFT, BANGALORE.
6	Lead Acid - Plante Battery for UPS and Charger	HBL POWER SYSTEMS,HYDERABAD
		HOPPECKE, GERMANY / MALAYSIA
		IBT,KOREA
7	Lead Acid - Tubular Battery for UPS and Charger	EXIDE, KOLKATA
		HOPPECKE, GERMANY / MALAYSIA
		HBL POWER SYSTEMS,HYDERABAD
		BUI, PUNE
8	SMF-VRLA Battery for UPS and Charger	EXIDE, KOLKATA
		HBL POWER SYSTEMS,HYDERABAD
		HOPPECKE, GERMANY / MALAYSIA
		AMARARAJA, TIRUPATI.
		EXIDE, HOSUR
		CHINO CORPORATION (I) PVT. LTD.
		FOXBORO COMPANY ,UK



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9	Digital Indicator	LEKTROTEK, PUNE MASIBUS, GANDHINAGAR. PYROTECH, UDAIPUR YOKOGAWA, JAPAN / YOKOGAWA - BANGALORE
10	Bar Graph Indicator	LEKTROTEK, PUNE MASIBUS, GANDHINAGAR. M-SYSTEM, JAPAN / CHINO CORPORATION (I) PVT. LTD. PYROTECH, UDAIPUR TELETERM, CHENNAI
11	Vertical Moving Coil Indicator	ABB, INDIA GOSSEN / CAMILLE BAUER/METRAWATT, GERMANY. YOKOGAWA, JAPAN
12	Pen, Point and Chart less Recorder	ABB, UK / GERMANY/ FARIDABAD CHINO CORPORATION (I) PVT. LTD. MUMBAI EUROTHERM / SAN PROCESS AUTOMATION HONEYWELL / FLUID CONTROLS YOKOGAWA, JAPAN / BANGALORE
13	Flow Integraters	ABB, UK / GERMANY/ FARIDABAD GOSSEN / CAMILLE BAUER/METRAWATT, GERMANY. MASIBUS, GANDHINAGAR. MCIH, CHENNAI RONAN ENGINEERING, USA YOKOGAWA, JAPAN / YOKOGAWA - BANGALORE
14	Cold Junc. Compn. (CJC) Box	CREATIVE INSTRUMENTS, BANGALORE.
15	Junction Box (FRP)	BALIGA LIGHTING, CHENNAI DEVI POLYMERS, CHENNAI. FICOM ENGG. PVT. LTD, BANGALORE K.S. INSTRUMENTS, BANGALORE MANISHA ENTERPRISES, PUNE SUCHITRA INDUSTRIES, BANGALORE M/s. SHRENIK & COMPANY, AHMEDABAD
16	Junction Box (Mild Steel)	BALIGA LIGHTNING, CHENNAI CHEMIN CONTROLS, PONIDCHERRY ELECTRO MECHANICAL (INDIA) ROORKEE K.S. INSTRUMENTS, BANGALORE. KHODAY CONTROL SYSTEMS, BANGALORE MANISHA ENTERPRISES, PUNE PRAMMEN, PUDDOKOTTAI PYROTECH, UDAIPUR
17	Electronic Transmitter - Pr. / Diff. Pr.	ABB, GERMANY/ FARIDABAD EMERSON PROCESS, USA / NAVI MUMBAI (formerly FISHER ROSEMOUNT- USA) FUJI, JAPAN HONEYWELL, USA/ PUNE YOKOGAWA, JAPAN / BANGALORE
18	Level Transmitter (Displacement type)	DRESSER MASONIELAN, FRANCE. / DRESSER VALVES INDIA LTD. COIMBATORE CHEMTROLS, MUMBAI (ECKARDT, GERMANY) ECKARDT, GERMANY MIL CONTROLS LIMITED, KERALA
19	Level Transmitter (Ultrasonic type)	EMERSON PROCESS, USA / NAVI MUMBAI (formerly FISHER ROSEMOUNT- USA) ENDRESS+HAUSER, GERMANY/INDIA KROHNE, FRANCE SIMENS MILTRONICS, CANADA VEGA, GERMANY
20	Level Transmitter (RADAR type)	EMERSON PROCESS, USA / NAVI MUMBAI (formerly FISHER ROSEMOUNT- USA) ENDRESS+HAUSER, GERMANY / INDIA HONEYWELL, USA / PUNE KROHNE, FRANCE K-TEK, USA MAGNETROL, BELGIUM VEGA, GERMANY
21	Level Transmitter (Hydro Static type)	ENDRESS+HAUSER, GERMANY / INDIA FUJI, JAPAN VEGA, GERMANY YOKOGAWA, JAPAN / BANGALORE ABB, GERMANY/ FARIDABAD EMERSON PROCESS, USA / NAVI MUMBAI (formerly FISHER ROSEMOUNT- USA)
22	Field mounted Temperature Transmitter	



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22	Field mounted Temperature Transmitter	ENDRESS+HAUSER, GERMANY / INDIA HONEYWELL, USA/ PUNE YOKOGAWA, JAPAN / BANGALORE
23	DIN-rail mounted Temperature Transmitter	ABB, GERMANY/ FARIDABAD EMERSON PROCESS, USA / NAVI MUMBAI (formerly FISHER ROSEMOUNT- USA) ENDRESS+HAUSER, GERMANY / INDIA HONEYWELL, USA/ PUNE MOORE, USA
24	HART Communicator	MERIAM, USA ABB, GERMANY / INDIA EMERSON PROCESS, USA / NAVI MUMBAI (formerly FISHER ROSEMOUNT- USA) FUJI, JAPAN (MERIAM, USA) HONEYWELL, USA/ PUNE YOKOGAWA, JAPAN (YOKOGAWA-BANGALORE)
25	HART Management System	EMERSON PROCESS, USA / NAVI MUMBAI (formerly FISHER ROSEMOUNT- USA) MTL, UK / INDIA PEPPERL + FUCHS, GERMANY / INDIA
26	Alarm Annuciation System	I I C, HYDERABAD INSTRUMENTATION LIMITED, KOTA MINILEC, PUNE PROCON CHENNAI SERTEL ELECTRONICS, CHENNAI
27	Master / Slave Clock System	MASIBUS, GANDHINAGAR. SANDS, CHENNAI SERTEL ELECTRONICS, CHENNAI
28	PA System	BNA TECHNOLOGY, BANGALORE BOSCH, GERMANY / HARITASA, BANGALORE BYTE COMMUNICATION, GURGAON CHASMITA, VADADORA E C I L, HYDERABAD KARTIK ENGINEERS, CHENNAI LARAON, GURGAON SCHNEIDAR ELECTRIC, BANGALORE CMS, CHENNAI
29	CCTV system (Integrator of main items from BOSCH-Germany, HONEYWELL-USA, PELCO-USA & SIEMENS)	NEURAL NETWORKS, MUMBAI SIEMENS INDIA, CHENNAI HARITASA CHECKMATE, BANGALORE NELCO, MUMBAI HONEYWELL AUTOMATION, CHENNAI TOSHNIWAL, AJMER TYCO FIRE SECURITY, BANGALORE SCHNEIDER ELECTRIC, BANGALORE
30	Cable glands	M.J. TRADERS, BANGALORE M/s BRACO ELECTRICALS (INDIA) PVT.LTD., MUMBAI M/s COMET BRASS PRODUCTS, MUMBAI M/s TRINITY.PVT.TECH LTD, NEW DELHI M/S PATNY SYSTEM, HYDERBAD M/S APT ENGG, DELHI M/S KANADE ANAND UDYOG PVT.LTD., MUMBAI M/S PRAMMEN INDUSTRIES, PUDUKKOTTAI M/s INDIA ELECTRICAL SYNDICATE, KOLKATA M/s RUKMINI ENTERPRISES, KOLKATA M/s VATCO, MUMBAI M/s INNOSPACER ENGINEERING TECHNOLOGIES PVT. LTD., BANGALORE M/s JAMNA METAL COMPANY, DELHI M/s M.J.Engg, DELHI
31	Cable trays	ADVANCE CABLES TECHNOLOGIES, BANGALORE CORDS CABLES, RAJASTHAN DELTON CABLES, FARIDABAD GOYOLINE FIBRES, MUMBAI INCAB, PUNE KEI INDUSTRIES LTD, CHENNAI KERPEN CABLES, GERMANY PARAMOUNT CABLES, ALWAR TC COMMUNICATION, DELHI GUPTA POWER INFRASTRUCTURE, BHUBANESHWAR SUYOG ELECTRICALS, BARODA POLYCAB, DAMAN MANSFIELD CABLE, NOIDA
32	Instrumentation, Control & Compensing / Thermocouple extension cables (PVC, FRLS Type)	



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		THERMO CABLES, HYDERABAD
		ADVANCE CABLES TECHNOLOGIES, BANGALORE
		GEMSCAB INDUSTRIES LTD, BHIWADI
		CCIL, BANGALORE
		CORDS CABLES, RAJASTHAN
		DELTON CABLES, FARIDABAD
		GOYOLINE FIBRES, MUMBAI
		INCAB, PUNE
33	Power Cable (LT)	KEI INDUSTRIES LTD, CHENNAI
		PARAMOUNT CABLES, ALWAR
		POLYCAB, DAMAN
		RADIANT CABLES HYDERABAD
		THERMO CABLES, HYDERABAD
		TORRENT, NADIAD
		MANSFIELD CABLE, NOIDA
		UNIVERSAL CABLES, SATNA
34	ATTENDENCE MANAGEMENT SYSTEM	HARITASA ELECTRONIC INC, BANGALORE
		SIEMENS LIMITED, CHENNAI
		NEOMAGIC INTEGRATED SYSTEM PVT LTD, BANGALORE
35	EPABX (Dealt by CE-Engg. -SCADA)	ABS INDIA PVT LTD, BANGALORE
		BPL TELECOM PVT LTD
		CROMPTON GREAVES LTD, BANGALORE
		HCL INFINET LTD, BANGALORE
		ITI LIMITED, BANGALORE
		SIEMENS LTD, BANGALORE
D TG CONTROLS		
1	Turbine Supervisory System	BRUEL & KJAER VIBRO, GMBH/ SHERMAN, NEWDELHI
		GE-ENERGY(BENTLY NEVADA), USA/GEIPL, INDIA
		MEGGIT-VIBROMETER, SWITZERLAND / MEGGIT INDIA PRIVATE LTD.
		ROCKWELL AUTOMATION, USA / INDIA
		SHINKAWA, JAPAN / FORBES MARSHALL, PUNE
		SKF, USA/INDIA
2	Control Valves	DRESSER VALVE INDIA PVT LTD
		INSTRUMENTATION LIMITED, PALAKKAD
		KOSO FLUID CONTROLS, PALAKKAD
		MIL CONTROLS LTD, ALWAYE
3	FEP insulated cables	DELTON CABLES, NEW DELHI
		HABIA CABLES, SWEDEN/CHINA
		LAPP CABLES, GERMANY
		LEONI KERPEN, GERMANY
		TEMPSENS INSTRUMENTS (I) PVT LTD, UDAIPUR
		THERMOELECTRIC, USA
4	PTFE insulated Cables	ADVANCE CABLES TECHNOLOGIES, BANGALORE
		DELTON CABLES, NEW DELHI
		FLUTEF INDUSTRIES, AHMEDABAD
		RJ INDUSTRIAL CORPORATION, ROORKEE
		TEMPSENS INSTRUMENTS (I) PVT LTD, UDAIPUR
		TOSHNIWAL CABLES PRIVATE LIMITED, JAIPUR
5	TG cable ducts & mounting frames	GEE DEE PACKAGES PVT LTD, MYSORE
		MALLIC ENGG, BANGALORE
		PRAMMEN INDUSTRIES, PUDUKOTTAI
		VASANTHALAKSHMI ENGG. WORKS, BANGALORE.
E HMI		
1	CRT Desk	IL KOTA
		CHEMIN CONTROLS, PONIDCHERRY
		KHODAY CONTROL SYSTEMS, BANGALORE
		PYROTECH, UDAIPUR
2	LVS	BARCO, BELGIUM
		CHRISTIE, USA / CHRISTIE, BANGALORE
		DELTA, THAILAND / DELTA, GURGAON
		PLANER, USA / PYROTECH, UDAIPUR
3	Computer Furniture	BHEL Approved Vendors (If no specific vendor's product)
		ADARSH CONTROLS, BANGALORE
		COSMOS MEDIA, NOIDA
		FEATHER LITE, BANGALORE
		GODREJ, BANGALORE
		OTS, BANGALORE
		PYROTECH, UDAIPUR
4	PC'S	DELL
		HP
		IBM-LENOVO



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5	TFT Monitor	DELL HP IBM-LENOVO NEC SAMSUNG
6	Dot matrix Printer	BHEL Approved Vendors EPSON TVS WIPRO
7	Printers (Laser/Inkjet)	BHEL Approved Vendors CANON EPSON(Inkjet only) HP IBM XEROX
8	Control / Operator Desk / Rack	BHEL Approved Vendors (If no specific vendor's product) ADARSH CONTROLS,BANGALORE CHEMIN,PONDICHERRY HCL INFOSYSTEM , BANGALORE PYROTECH, UDAIPUR VRL AUTOMATION,BANGALORE
9	Modular Desk	BHEL Approved Vendors (If no specific vendor's product) ADARSH CONTROLS,BANGALORE CHEMIN,PONDICHERRY COSMOS MEDIA,NOIDA PYROTECH, UDAIPUR RITTAL,BANGALORE
10	Computerised Maintenance & inventory Management System	BHAWAN CYBERTEC ,CHENNAI HONEYWELL, BANGALORE ROCKWELL AUTOMATION, USA / INDIA SKF RELIABILITY SYSTEM, INDIA TCS, BANGALORE
F DAVR (1-20) / SEE (2-27)		
1	LT AUX TRANSFORMER	TRANSPOWER IND. INTRAVIDYUT LTD. (>50KVA RATING) ANU ELECTRICALS KALPA ELECTRICAL PVT LTD. KALHARE ENTERPRISES UNIVERSAL (>100KVA RATING) PRIMA TRANSFORMERS AHMEDABAD
2	PANEL METERS	AUTOMATIC ELECTRIC PVT LTD. MECO INSTRUMENTS RISHAB INSTRUMENTS SECURE METERS
3	INDICATING LED LAMPS/ PUSH BUTTONS	TEKNIC C & S ELECTRIC ESSEN DEINIKI SIEMENS
4	TIER FAN	HI COOL SUNON MICRO INSTRUMENTS
5	CURRENT TRANSFORMERS (INCLUDING CONDUCTION MONITORING CTs)	KAPPA ELECTRICALS INSTRANS ENGG. & MFG. PVT LTD. PARAS POWER ENGG. LTD. KALPA ELECTRICAL PVT LTD.
6	SHUNT	M/S MECO INSTRUMENTS(GOLIYA ELECTRICALS PVT.LTD) AUTOMATIC ELECTRIC PVT LTD. RISHABH INSTRUMENTS
7	AUX CONTACTOR	SIEMENS (I) LTD. ABB (I) LTD. GE POWER CONTROLS LTD
8	FUSES (LOW VOLTAGE SWITCHGEAR)	AREVA GE POWER CONTROLS LTD COOPER BUSSMANN INDIA LTD. SIEMENS INDIA
9	ELECTRONIC MODULE	FERRAZ SHAWMUT BHEL-EDN BANGALORE
10	THYRISTOR / POWER DIODE	BHEL-EDN BANGALORE SEMIKRON(I) RUTTONSHAW INTERNATIONAL
11	MCB	ABB LTD. SIEMENS AG / SIEMENS(I) LTD.



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		SCHNEIDER ELECTRIC
12	FIELD BREAKER	MERSEN (FORMERLY KNOWN AS LENOIR ELECTRICALS, FRANCE)
		ABB CONTROLS
13	LINEAR FIELD DISCHARGE RESISTOR	AMP CONTROL EQPT. PVT LTD.
		OHMARK CONTROLS PVT LTD.
		KS INSTRUMENTS
14	TRANSDUCER	ELSTER METERING (FORMERLY ABB)
		SOUTHERN TRANSDUCERS CHENNAI
		PYROTECH
		RISHABH
15	THYRISTOR FUSE	MERSEN (FORMERLY KNOWN AS FERRAZ SHAWMUT)
		COOPER BUSSMANN
16	AUXILIARY RELAY	JYOTHI LTD. BARODA
		GUARDIAN CONTROLS
17	ROTARY SWITCHES	KAYCEE IND.
		SALZER,
		KRAUS NAIMER
18	OFFLOAD ISOLATOR	CONTROL & SWITCH GEAR LTD.
		ABB, INDIA
19	POWER CABLES AND CONTROL CABLES	UNIVERSAL CABLES
		DELTON CABLES
		ADVANCED CABLE TECHNOLOGY
		THERMO CABLES LTD
		PARAMOUNT CABLE CORPORATION
		INCAB INDUSTRIES LTD
		KEI INDUSTRIES LTD
		CORDS CABLE INDUSTRIES
		MANSFIELD
20	LAPTOP (NOTEBOOK PC)	HP COMPAQ
		DELL
		IBM LENOVO
21	FERRITE CORE REACTOR	M/S TATA AIG (FORMERLY KNOWN AS MAGNETIC INTERNATIONAL
22	THYRISTOR COOLING FAN	SOUTHERN MAGNETICS
23	TEMP. SURVIELANCE UNIT	APR ELECTRONICS PVT. LTD.
24	OVER VOLTAGE PROTECTOR	BHEL-EDN BANGALORE
		FIBRADITE PRODUCTS PVT LTD.
25	PARALLEL SHARING REACTORS	SREE VENKATESHA ELECTRICAL IND.
		VETRIE ELECTRONICS
		AMES IMPEX AHMEDABAD
26	O/C RELAY ROTOR E/F RELAY U/V RELAY	AREVA (FORMERLY ALSTHOM INDIA LTD)
		SCHNEIDER ELECTRIC
27	EXCITATION TRANSFORMER	BHEL-JHANSI
		VOLTAMP AHMEDABAD
		AMES IMPEX AHMEDABAD
28	AIRFLOW MONITORING UNIT	EBERLE GMBH
29	NON-LINEAR FIELD DISCHARGE RESISTOR	M & I MATERIALS LTD .UK

G VFD (LCI)-MANUFACTURED AT BHEL-EDN

1	TRANSFORMER(OIL COOLED)	AREVA T & D , NAINI/VADODARA
		AMES IMPEX. AHMEDABAD
		CROMPTON GREAVES, MUMBAI / MALANPUR
		EMCO, THANE / JALGAON
		TESLA, BHOPAL
		VOLTAMP LTD. VADODARA
		RIMA TRANSFORMERS & CONDUCTORS, BANGALORE
		INDOTECH TRANSFORMERS, CHENNAI
		SUDHIR INTRA VIDYUT LTD.BANGALORE
		UNIVERSAL TRANSFORMERS, BANGALORE
		KANOVAR ELECTRICALS, MEERUT
2	TRANSFORMER(DRY TYPE)	BHEL, JHANSI
3	DC LINK REACTOR	HIND RECTIFIER , MUMBAI/NASIK
		P.S. ELECTRICALS, CHENNAI
		SUDHIR INTRA VIDYUT LTD.BANGALORE
		AMES IMPEX, AHMEDABAD
4	VACUUM CIRCUIT BREAKER	BHEL, BHOPAL
5	FLEXIBLE COUPLING Type: PM 400	RENOLD HI-TEC COUPLINGS, UK
6	FLEXIBLE COUPLING Type: PM 90 / PM 160 / PM270	RENOLD HI-TEC COUPLINGS, UK
		POONA COUPLINGS, PUNE



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7	HT POWER CABLES	CABLE CORPORATION OF INDIA LTD, BANGALORE FINOLEX CABLES, PUNE INCAB, PUNE KEC INTERNATIONAL (RPG), BANGALORE POLYCAB, MUMBAI RADIANT CABLES, HYDERABAD TORRENT CABLES, AHMEDABAD UNIVERSAL CABLES, SATNA HINDUSTAN VIDYUT PRODUCTS LTD, FARIDABAD ADVANCE CABLES TECHNOLOGIES, BANGALORE KEI INDUSTRIES LTD, NEW DELHI
8	HT CABLE TERMINATION KIT	COMPAQ INTERNATIONAL, YAMUNANAGAR, HARYANA HEAT SHRINK TECHNOLOGIES LTD, MUMBAI RAYCHEM, BANGALORE 3M, PUNE
9	ALL PANEL MOUNTED ITEMS	BHEL-EDN APPROVED VENDORS
H VFD (BOUGHT-OUT)		
1	VFD PANELS(LV)	ABB, INDIA SIEMENS, INDIA ROCKWELL AUTOMATION, INDIA GE/CONVERTEAM, INDIA VACON, INDIA DANFOSS, INDIA HITACHI/HIREL, INDIA INGETEM, SPAIN ANSALDO, ITALY EUROTHERM, INDIA FUJI ELECTRIC, INDIA
2	VFD PANELS(MV)	ABB, INDIA SIEMENS, INDIA ROCKWELL AUTOMATION, INDIA GE/CONVERTEAM, INDIA HITACHI/HIREL, INDIA INGETEM, SPAIN ANSALDO, ITALY FUJI ELECTRIC, INDIA
3	TRANSFORMER(OIL COOLED)	AREVA T & D, NAINI/ VADODARA AMES IMPEX, AHMEDABAD CROMPTON GREAVES, MUMBAI / MALANPUR EMCO, THANE / JALGAON TESLA, BHOPAL VOLTAMP LTD, VADODARA RIMA TRANSFORMERS & CONDUCTORS, BANGALORE INDOTECH TRANSFORMERS, CHENNAI SUDHIR INTRA VIDYUT LTD, BANGALORE UNIVERSAL TRANSFORMERS, BANGALORE KANOHAR ELECTRICALS, MEERUT
4	TRANSFORMER(DRY TYPE)	BHEL, JHANSI AMES IMPEX, AHMEDABAD VOLTAMP LTD, VADODARA SUDHIR INTRA VIDYUT LTD, BANGALORE INDOTECH TRANSFORMERS, CHENNAI
5	CIRCUIT BREAKER PANELS(MCCB/ACB)	VEEVEE CONTROLS, BANGALORE POWERPLUS, BANGALORE PRIMA AUTOMATION, GANDHINAGAR NARAIURAN CONTROLS, CHENNAI NIKITECH CONTROLS, BANGALORE ABB, INDIA SIEMENS, INDIA SCHNEIDER, INDIA GE POWER CONTROLS, INDIA
6	CIRCUIT BREAKER PANELS(VCB)	BHEL, BHOPAL
7	HT POWER CABLES	CABLE CORPORATION OF INDIA LTD, BANGALORE FINOLEX CABLES, PUNE INCAB, PUNE KEC INTERNATIONAL (RPG), BANGALORE POLYCAB, MUMBAI RADIANT CABLES, HYDERABAD TORRENT CABLES, AHMEDABAD UNIVERSAL CABLES, SATNA HINDUSTAN VIDYUT PRODUCTS LTD, FARIDABAD ADVANCE CABLES TECHNOLOGIES, BANGALORE



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8	HT CABLE TERMINATION KIT	COMPAQ INTERNATIONAL, YAMUNANAGAR, HARYANA HEAT SHRINK TECHNOLOGIES LTD, MUMBAI RAYCHEM, BANGALORE 3M, PUNE
9	LT POWER CABLES & LT CONTROL CABLES	ADVANCE CABLES TECHNOLOGIES, BANGALORE CABLE CORPORATION OF INDIA LTD, BANGALORE CORDS CABLES, BHIWADI, RAJASTHAN DELTON CABLES, FARIDABAD INCAB, PUNE KEC INTERNATIONAL (RPG), BANGALORE KEI INDUSTRIES LTD, NEW DELHI PARAMOUNT CABLES ALWAR POLYCAB, MUMBAI RADIANT CABLES, HYDERABAD THERMO CABLES, BANGALORE TORRENT CABLES, AHMEDABAD UNIVERSAL CABLES, SATNA
1	HYDRO CONTROL	
1	PUSHBUTTONS, SWITCHES, INDICATING LAMPS (FOR MOUNTING IN PANELS)	
	a. Miniature	Swisstec, Germany EAO, Switzerland.
	b. Normal	1. Siemens Ltd, 2. Teknic Control Gear Pvt Ltd. 3. L&T Ltd.
2	AUXILIARY RELAY & MULTIPLIER RELAYS (FOR MOUNTING IN PANELS)	Jyoti Ltd. Elesa Guardian Controls.
3	CONTACTORS (FOR MOUNTING IN PANELS)	Siemens, Schneider, ABB
4	ROTARY SWITCHES (FOR MOUNTING IN PANELS)	Kaycee Industries Saizer Electronics Ltd.
5	ARROW LAMPS (FOR MOUNTING IN PANELS)	Signal Construct GMBH.
6	SEMAPHORE INDICATORS (FOR MOUNTING IN PANELS)	
	LED TYPE :	Industrial Electro Controls
	PANEL METERS (ANALOG & DIGITAL) (FOR MOUNTING IN PANELS)	Meco Instruments Pvt Ltd. AE Ltd. Rishabh.
7		Secure Meters India Pvt Ltd
8	ELECTRONIC TRIVECTOR METER	ELESTER (ABB) LANDIS+GYR
9	MOTOR PROTECTION CIRCUIT BREAKER (FOR MOUNTING IN PANELS)	ABB SIEMENS TELEMECANIQUE MDS SWITCHGEAR LTD.
	MINIATURE CIRCUIT BREAKER	INDO KOPPA/INDO ASIA ABB INDIA HAVELLS
10	TRANSDUSER (FOR MOUNTING IN PANELS)	SOUTHERN TRANSDUSER- ELSTER (ABB) RISHABH ADEPT, PUNE AUTOMATIC ELECTRIC, MUMBAI LECTROTEK, PUNE MASIBUS, GANDHINAGAR. MECO, MUMBAI PYROTECH, UDAIPUR ELECTRONIC AUTOMATION (P) LTD
11	TIME DELAY RELAYS (FOR MOUNTING IN PANELS)	MULTICOMAT
12	A. MANUAL CHECK SYNC RELAY: (FOR MOUNTING IN PANELS)	AREVA T&D India Ltd. EASUN REYROLLE ABB INDIA
	B. TRIP CIRCUIT SUPERVISION RELAY (FOR MOUNTING IN PANELS)	AREVA T&D India Ltd. ABB INDIA EASUN REYROLLE
13	MECHANICALLY LATCHED, ELECTRICALLY RESET RELAY	ABB INDIA



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	(FOR MOUNTING IN PANELS)	
14	SWITCHED MODE POWER SUPPLY	POWERTEC
	(FOR MOUNTING IN PANELS)	ABB - INDIA
		PHOENIX
15	ALARM ANNUNCIATOR PANELS	INDUSTRIAL INSTRUMENTS AND CONTROLS
	(BOP)	PROCON INSTRUMENTATION PVT.LTD
		PYROTECH
16	ALARM WINDOW	INDUSTRIAL INSTRUMENTS AND CONTROLS
	(FOR MOUNTING IN PANELS)	PROCON INSTRUMENTATION PVT.LTD
		PYROTECH
	INTELLIGENT BATTERY CHARGER (24V)	AMARARAJA, TIRUPATI.
17		CHHABI ELECTRICALS, JALGAON.
	(BOP)	CHLORIDE POWER SYSTEMS & SOLUTIONS LTD.
		DB POWER,PUNE
		M/S STATCON POWER CONTROLS, NOIDA
		ELTEK-SGS VALERE POWER ,GURGAON
		HBL POWER SYSTEMS,HYDERABAD
		MASTECH,MUMBAI
	THYRISTOR BASED BATTERY CHARGER (24V)	AMARARAJA, TIRUPATI.
18		CHLORIDE POWER SYSTEMS & SOLUTIONS LTD.
	(BOP)	CHHABI ELECTRICALS, JALGAON.
		M/S STATCON POWER CONTROLS, NOIDA
		HBL POWER SYSTEMS,HYDERABAD
		MASTECH,MUMBAI
	BATTERY- (NI-CAD)	AMCO SOFT, BANGALORE.
19		HBL POWER SYSTEMS,HYDERABAD
	(BOP)	HOPPECKE, GERMANY / MALAYSIA
		IBT,KOREA
20	LEAD ACID - PLANTE BATTERY	EXIDE, KOLKATA
	(BOP)	HOPPECKE, GERMANY / MALAYSIA
	LEAD ACID - TUBULAR BATTERY	BUI, PUNE
21		EXIDE, KOLKATA
	(BOP)	HBL POWER SYSTEMS,HYDERABAD
		HOPPECKE, GERMANY / MALAYSIA
	SMF-VRLA BATTERY	AMARARAJA, TIRUPATI.
22		EXIDE, HOSUR
	(BOP)	HBL POWER SYSTEMS,HYDERABAD
		HOPPECKE, GERMANY / MALAYSIA
	230V AC, 1 Phase UPS	AEG (SAFT)GERMANY / SINGAPORE
23		EMERSON NETWORK (formerly TATA-LIEBERT), MUMBAI
	(BOP)	GUTOR,SWITZERLAND
		HITACHI-HIREL ELECTRONICS, GANDHINAGAR
		KELTRON,TRIVENDRUM
	POWER, CONTROL & INSTRUMENTATION CABLES	
	(BOP)	DELTON CABLES.
24		UNIVERSAL CABLE LTD.
	PVC, FRLS Type Unarmoured cable	RELIANCE ENGINEERS.
		PARAMOUNT CABLE CORPORATION
		INCAB INDUSTRIES LTD.
		NICCO CORPORATION LTD.
		TORRENT CABLES LTD.
		RADIANT.
		CORDS CABLE INDUSTRIES LTD.
	MASTER-SLAVE CLOCK SYSTEM	MASIBUS, GANDHINAGAR.
25		SANDS, CHENNAI
	(BOP)	SERTEL ELECTRONICS, CHENNAI
	INDUSTRIAL PC's / KVM	ADLINK
26		ADVANTECH
	(FOR MOUNTING IN PANELS)	ATEN
		AXIOMTEK
		IEI
		INDUSTRIAL COMPUTERS INC.
27	SPEED TRANSDUCER (Used in EHGC)	BRAUN GERMANY



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NOTE:

Bidder to note that sub-vendors shall be as per indicative Sub-Vendor list enclosed in this Specification and:

- I. Any additional Sub Vendor (not specified in the list) shall subject to BHEL, & MAHAGENCO, approval during detailed engineering without any delivery/ commercial implications.
- II. All the finally selected Sub vendor shall be subject to BHEL, & MAHAGENCO approval during detailed engineering without any delivery/ commercial implications.
- III. Credentials required for finally selected/ proposed Sub-vendor shall be provided by the bidder. Non-acceptance of any Sub-Vendor by MAHAGENCO/ BHEL shall not have any commercial & delivery implication.
- IV. Bidder shall submit all the Quality plans/ Check list during detail engineering for MAHAGENCO & BHEL approval. All comments as given by MAHAGENCO & BHEL shall be taken care by bidder without any commercial & delivery implication.
- V. The inspection category will be intimated after award of contract by MAHAGENCO & BHEL . However, the same will be adhered by the bidder without any commercial and delivery implication to MAHAGENCO & BHEL.