



TITLE

**4 X 270 MW BHADRADRI TPS
TECHNICAL SPECIFICATION FOR
PRE- TREATMENT PLANT**

SPECIFICATION NO.

PE-TS-411-158A-A001

VOLUME: II B

REV 00

SHEET of

ANNEXURE-I

S.No.	ITEM	SUPPLIERS	PLACE	REMARKS
1.	PRESSURE VESSELS	GLOBAL STRUCTURES & COMPOSITE LTD	-	
		JASMINO POLYMERTECH	TALOJA	
		SYSCON ENGINEERS	AMBERNATH	
		S.V. FABRICATORS	NAVI MUMBAI	
		SPARK FABRICATORS / STEELCON	-	
		ANUP ENGINEERING	AHMEDABAD	
		MURTHAL TANKS & VESSELS	SONEPAT	
		TITAN ENGG.	DURGAPUR	
		RISHI INDUSTRIES	BAHALGARH	
		UNIVERSAL HEAT EXCHANGERS	-	
		ATS CHEM	SALEM/HOSUR	
		CHEM PROCESS SYSTEM	SANAND	
		PROGEN	CHENNAI	
		CRYSTAL ENGINEERING	HOSUR	
ISHAN EQUIPMENTS	VADODARA			
2.	ATMOSPHERIC/ STORAGE TANKS	GLOBAL STRUCTURES & COMPOSITE LTD	-	
		JASMINO POLYMERTECH	TALOJA	
		SYSCON ENGINEERS	AMBERNATH	
		S.V. FABRICATORS	NAVI MUMBAI	
		SPARK FABRICATORS / STEELCON	-	
		ANUP ENGINEERING	AHMEDABAD	
		MURTHAL TANKS & VESSELS	SONEPAT	
		TITAN ENGG.	DURGAPUR	
		RISHI INDUSTRIES	BAHALGARH	
		UNIVERSAL HEAT EXCHANGERS	-	
		ATS CHEM	SALEM/HOSUR	
		CHEM PROCESS SYSTEM	SANAND	
		PROGEN	CHENNAI	
		CRYSTAL ENGINEERING	HOSUR	
ISHAN EQUIPMENTS	VADODARA			
3.	RUBBER LINING (AT SHOP)	TEMSEC	KOLKATA	
		RISHI INDUSTRIES	SONEPAT	
		CORI ENGINEERS	CHENNAI	
		POLY RUBBER	MUMBAI	
		INDUSTRIAL LINING	VADODARA	
		ARUL RUBBERS	CHENNAI	
		JASMINO POLYMERTECH	TALOJA	
		WESTERN RUBBER	NAVI MUMBAI	
ELASTOMER LINNING	AMBERNATH			



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		EMKAY RUBBER	MUMBAI	
4	ACTIVATED CARBON	INDUSTRIAL CARBON VVD & SONS GLOBAL ABSORBENT PVT LTD ACTIVE CARBON WESTERN CHEMICALS	ANKLESHWAR TUTICORIN KOLKATA - -	
5	AIR BLOWERS (TWIN LOBE TYPE)	SWAN PNEUMATIC EVEREST TRANSMISSION KAY INTERNATIONAL EVEREST BLOWER KULKARNI POWER TOOLS	NOIDA NEW DELHI NEW DELHI / SONEPAT BAHADURGARH KOLHAPUR/ PUNE	
6	METERING PUMPS	VK PUMPS MILTON ROY INDIA SWELLORE POSITIVE METERING PUMPS METACHEM	NASIK CHENNAI AHMEDABAD NASIK MUMBAI	
7	AGITATOR	REMI PEOCESS PLANT & M/C FIBRE & FIBRE CEECONS STANDARD ENGINEERS	MUMBAI MUMBAI / SILVASA CHENNAI MUMBAI	
8	HORIZONTAL CENTRIFUGAL PUMPS	KIRLOSKAR BROTHERS LTD. MATHER & PLATT KSB SAM TURBO IND LTD KISHOR PUMPS SULZER WPIL FLOWMORE UNIT-I &II BEST & CROMPTON	WADI PUNE PUNE COIMBATORE PUNE PUNE GHAZIABAD SAHIBABAD CHENNAI	
9	HORIZONTAL CENTRIFUGAL PUMPS (RUBBER LINED)	KISHOR PUMPS SU MOTORS	PUNE MUMBAI	
10	NON METALLIC (PP/FRP) HORIZONTAL CENTRIFUGAL PUMPS	ENGINEERS COMBINE ANTICORROSIVE LEAK PROOF PUMPS PVT. LTD. (RAJEDIA)	THANE VALSAD -	
11	MISC. PUMP VERTICAL TURBINE TYPE	KBL M&P WPIL KISHORE PUMPS FLOWMORE	PUNE PUNE GHAZIABAD PUNE SAHIBABAD	
12	BATTERY CHARGER	CHLORIDE POWER	KOLKATA	



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	FOR PLC	CHABBI	JALGAON	
		AMAR RAJA	TIRUPATI	
		STATCON	NOIDA	
		HBL POWER SYSTEM	HYDERABAD	
		DUBAS	BANGALORE	
		CALDYNE	KOLKATA	
13	UNDER BED NOZZLE	JONSONS SCREEN	AUSTRALIA/ IRELAND	
14	COATING & WRAPPING MATERIAL TAPE	IWL LTD.	CHENNAI	
		MP TAR PRODUCT	BHILAI	
		PORWAL INDUSTRIES	RAIPUR	
		RUSTECH	KOLKATA	
		STP	JAMSHEDPUR	
15	HEATER	ESCORTS	FARIDABAD	
		RACOLDS	FARIDABAD	
16	CLARIFIER/ THICKENER MECHANISM	CLEAR WATER	DELHI	
		TRIVENI	NOIDA	
		PBJ ASSOCIATE	PUNE	
17	CENTRIFUGE	HUMBOLT	-	
		HILLER	-	
		H.SARKAR	HOWRAH	SIZE UPTO 300NB & PR.CL.
		A.V. VALVES LTD	AGRA	
		LEADER	JALANDHAR	
		SURYA VALVES AND INSTRUMENTS MFG CO.	CHENNAI	FOR GV UPTO 450NB, GLV UPTO 300NB AND CHECK VALVES UPTO 350NB.
18	MANUAL CI GATE / GLOBE / CHECK VALVES/ SRV			(1) CARBON IRON GATE VALVES: 65 NB TO 450 NB (UPTO PN-16.0) (2) CARBON IRON GLOBE VALVES & NON RETURN VALVES: 65 NB TO 150 NB (UPTO PN-16.0)
		ATAM VALVES PVT. LTD.	JALANDHAR	



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		FLUIDLINE VALVES COMPANY PVT.LTD.	MUMBAI	1. CI GATE-CL125 & UP TO 900 NB, 2. CI GLOBE-CL125 & UP TO 450 NB, 3. CI SCNRV-CL125 & UP TO 600 NB.
		G.M. DALUI AND SONS PVT.LTD.	HOWRAH	
		KBL	KONDHAPURI	ADDITIONALLY APPROVED FOR FM APPROVED GATE VALVE 50-250 NB
		BANKIM	KOLKATA	
		VENUS PUMPS AND ENGG. WORKS	KOLKATA	1) CI GATE VALVE SIZES 65NB-800NB ,2) CI GLOBE VALVE FOR SIZES 65NB-400 NB AND 3) CI SCNRV FOR SIZES 65 NB -600 NB.
19	BALL VALVE (MANUAL /PNEUMATIC/ ELECTRIC) CLASS 150	FLOWCHEM INDUSTRIES	KALOL	
		WEIR BDK	HUBLI	
		L&T (AUDCO)	COIMBATORE	
		MICROFINISH VALVES	HUBLI	
		AKAY VALVES	HUBLI	
20	ELECTRIC MOTOR	MARATHON,	KOLKATA	For HT and LT motor
		CROMPTON GREAVES	AHMEDNAGAR	For HT and LT motor
		NGEF	BANGALORE	Upto 15 KW
		ABB	BANGALORE/FARI DABAD	Upto 200 KW
		SIEMENS	MUMBAI	For HT and LT motor
		JYOTI	BARODA	For LT motor only
		LHP	SOLAPUR	Upto 120 KW
		BHEL	BHOPAL	For HT motor only
		BHARAT ELECTRIC (BHEL)		For LT motor only



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		BHARAT BIJLEE	MUMBAI	Upto 160 KW(For LT motor only)
		KEC	BANGALORE/HUBLI	Upto 90 KW
21	BALL VALVE (HIGH PRESSURE)	VELAN BRAY	CANADA CHINA	
22	BUTTER-FLY VALVE (MANUAL / PNEUMATIC/ELECTRIC) CLASS 150	FLOW SERVE WEIR BDK CRANE FLOW PROCESS INTERVALVE (I) PVT LTD BRAY CONTROL FOURESS KBL PENTAIR VALVES ADVANCE VALVES	CHENNAI HUBLI SATARA PUNE CHINA BANGALORE KOHNDHAPURI HALOL GREATER NOIDA	
23	DUAL PLATE TYPE NON-RETURN VALVE (SS & CI /CIRL UPTO 200 NB, CLASS 150)	ADVANCE VALVES HAWA ENGINEERS LEADER	GREATER NOIDA AHMEDABAD JALANDHAR	
24	DIAPHRAGM VALVE (MANUAL / PNEUMATIC) CLASS 150	WEIR BDK CRANE FLOW PROCESS PROCON MAJESTIC VALVES (LABLINE) HAWA ENGINEERS	HUBLI SATARA MUMBAI - AHMEDABAD	
25	CHECK VALVE / NRV (LINED / UNLINED), FLAP TYPE SIZE UPTO 50 NB	MAJESTIC VALVES (LABLINE) WEIR BDK	- HUBLI	
26	Y-TYPE STRAINER / STRAINER (WATER SERVICE)	OTOKLIN GRAND PRIX JAYPEE GREAVES COTTON MULTITEX FILTRATION ENGINEERING FLUIDNYE SUNGOV ENGINEERING PVT. LTD. Grand Prix JAYPEE INDUSTRIES PVT. LTD. BHATIA ENGINEERING CO.	MUMBAI NEW DELHI NEW DELHI MUMBAI NEW DELHI / NOIDA - - Delhi Faridabad Delhi Delhi	
27	RUBBER FLAP TYPE CHECK VALVES	ASHVIK VALVES FLOW WAY VALVES BDK	- - -	



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		MAJESTIC VALVES (LABLINE INST)	-	
		ADVANCE VALVES	-	
28	SOLENOID VALVES	ROTEX	-	
		AVCON	-	
29	PRESSURE GAUGE/ DIFFERENTIAL PRESSURE GAUGE	H GURU	RISHRA/MUZAFFA RPUR/BANGALOR E	
		AN INSTRUMENTS	KOLKATA	
		ASHCROFT INDIA PVT LTD.	GIDC CHHATRAL KALOL	
		FORBES MARSHALL (HYD) LTD.	HYDERABAD	
		GAUGE BOURDON INDIA PVT. LTD.	MUMBAI,	
		H.GURU INSTRUMENTS (SOUTH INDIA) P. LTD	BANGALORE	
		WIKA	PUNE	
		MANOMETER INDIA	MUMBAI,	
		BAUMER TECHNOLOGIES INDIA PVT. LTD.	VAPI	
		GIC(GAUGES BOURDON)	PANVEL	
30	Pressure/DP/Vacuum Switch	INDFOSS	GHAZIABAD	
		SOR	USA	
		DRESSOR	USA	
		DELTA CONTROL	UK	
		TRAFAG	RANIPET	
		GIC(GAUGES BOURDON)	PANVEL	
		ASHCROFT INDIA PVT LTD.	USA/GERMANY	
		SWITZER	CHENNAI	
31	TEMPERATURE GAUGE	GENERAL INSTRUMENTS		
		WAAREE (BAUMER INSTRUMENTS)		
		H.GURU INSTRUMENTS		
		A.N.INSTRUMENTS		
		SWITZER		
		FORBES MARSHALL		
32	LEVEL GAUGE (F&B, TUBULAR, REFLEX)	SBEM		
		CHEMTROL		
		PUNE TECHTROL		
		SIGMA		
		V AUTOMAT		
		GENERAL INSTRUMENTS		
33	ROTAMETER	SWITZER		
		EUREKA		
		INSTRUMENT ENGINEERS		
		TRAC		



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34	LEVEL SWITCH (ALL TYPES)	LEVCON	
		CHEMTROLS SAMIL (INDIA) PVT LTD.	
		SWITZER	
		WAAREE (BAUMER INSTRUMENTS)	
		V AUTOMAT	
		PUNE TECHTROL	
35	MAGNETIC FLOW METER	ABB	-
		WAAREE (BAUMER INSTRUMENTS)	-
		EUREKA	-
		EMERSON	-
		YOKOGAWA	-
		HACH (POTENSE)	-
		KROHNE MARSHALL	-
36	FLOW TRANSMITTERS (ALL TYPES)	E & H	-
		KHRONE MARSHALL	-
		EMERSON	-
		ABB	-
		HONEYWELL	-
		YOKOGAWA	-
37	LEVEL TRANSMITTERS (ALL TYPES)	EMERSON	-
		E & H	-
		ABB	-
		HONEYWELL	-
		V AUTOMAT	-
		YOKOGAWA	-
		SIEMENS	-
		KROHNE MARSHALL	-
38	PRESSURE TRANSMITTERS (ALL TYPES)	EMERSON	USA/PAWANE
		LAXONS AUTOMATION	DAMAN
		YIL	BANGALORE
		SIEMENS	THANE
		FUJI	CHINA
		YOKOGAWA	JAPAN
		HONEYWELL	USA/PUNE
39	TEMPERATURE TRANSMITTERS	EMERSON	-
		E & H	-
		ABB	-
		HONEYWELL	-
		V AUTOMAT	-
		YOKOGAWA	-
		SIEMENS	-
		FORBES MARSHALL	-
40	PH TRANSMITTERS	EMERSON	-
		YOKOGAWA	-



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		HONEYWELL	-	
		ABB	-	
		HACH	-	
		FORBES MARSHALL	-	
41	ANALYSERS (ALL TYPES)	ABB	-	
		EMERSON	-	
		YOKOGAWA	-	
		HONEYWELL	-	
		HACH POLYMETRON	-	
		SIEMENS	-	
		FORBES MARSHALL	-	
42	PLC WITH ENCLOSURE	SIEMENS	NASIK	
		SCHNEIDER	NASIK	
		ROCKWELL	SAHIBABAD	
		GE INTELLIGENT PLATFORM	BANGALORE	
		HONEYWELL AUTOMATION INDIA LIMITED ,	PUNE	
		ABB	BANGALORE	
43	UPS	HITACHI-HIREL	GANDHINAGAR	
		APC	BANGALORE	
		DELTA	GURGAON	
		EMERSON	MUMBAI	
		DB POWER	PUNE	
		APLAB	MUMBAI	
44	CABLE GLAND	COMET	-	
		DOWELL	-	
		CHETNA	-	
45	CABLE LUGS	ELECTRO BILLETS	-	
		COMET	-	
		DOWELL	-	
		CHETNA	-	
46	MS PLATES	SAIL		
		Essar Steel		
		TISCO		
		RINL		
		Jindal		
		Lloyd		
		Ispat		
		Indian Iron & Steel Co. Ltd		
47	CS PIPE (ASTM A 106 GR. B)	INDIAN SEAMLESS METAL TUBES	AHMEDABAD	UPTO 150 NB
		MAHARASHTRA SEAMLESS	RAIGAD	UPTO 350 NB
48	MS PIPES (IS: 1239 &	SAIL	ROURKELA	



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3589)	JINDAL	GHAZIBAD/HISSA R	
	SURYA ROSHNI	BAHADUR GARH	
	TATA TUBE	JAMSHEDPUR	
	PSL	CHENNAI/VIZAG/KUTCH/DAMAN	
	LALIT PROFILE	THANE	
	SAMSHI PIPES INDUSTRIES	VADODARA	
	MUKUT PIPES	RAJPURA	
	INDUS TUBES	G B NAGAR	
	MANN IND	INDORE	
	SURENDRA ENGG	RAJPURA	
	PRATIBHA PIPES & STRUCTURE PVT LTD	THANE	
	JCO GAS PIPE	CHINDWARA	
	NUKAT TANKS AND VESSELS	TARAPUR	
	DADU PIPES	SIKRANDRABAD	
	GOOD LUCK TUBES	SIKANDRABAD	
	ADVANCE STEEL TUBES	SAHIBABAD	
	BIHAR TUBES	SIKANDRABAD	
	HI TECH PIPES	SIKANDRABAD	
	RATNAMANI	KUTCH/AHMEDABAD/CHHATRAL	
	MAHARASHTRA SEAMLESS	RAIGAD	
WELSPUN	ANJAR/BHARUCH		
49	SS PIPES / TUBES	APEX TUBES	BEHROR (ALWAR)
		RATNAMANI	CHATTRAL
		REMI	TARAPUR
		PRAKASH STEELAGE	-
50	POWER/CONTROL/INSTRUMENT CABLE	CORDS CABLE	BHIWADI
		RADIANT CABLES	HYDERABAD
		POLYCAB	DAMAN
		KEI	BHIWADI
		NICCO	KOLKATA
		RAVIN CABLES	PUNE
		INCAB	PUNE
		HVPL	FARIDABAD
		TORRENT CABLE	NADIAD
		HAVELLS	ALWAR
		PARAMOUNT	KHUSHKHERA
		SRI RAM CABLES	BHIWADI
		THERMOCABLES	HYDERABAD
		TORRENT CABLE	NADIAD
		UNIVERSAL CABLES	SATNA
		GEMSCAB	BHIWADI
DELTON	FARIDABAD		
51	SAFETY SHOWER	UNICARE	-



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		MOHAN INDUSTRIES	-	
		SUPER SAFETY SERVICES	-	
52	FRP TANKS & FITTINGS	GLOBAL COMPOSITE	-	
		EPP	-	
		DEEPA COMPOSITE	-	
		COROSEAL INDUSTRIES	-	
		CHEMICAL PROCESS & EQUIPMENT PVT LTD	-	
		J.R FIBRE INDUSTRIES PVT LTD	-	
		POLYPLAST	-	
53	EJECTOR	ESSEM TECHNOLOGIES	-	
		RATNA PRASAD	-	
54	LOCAL CONTROL PANEL	INDUSTRIAL SWITCHGEAR & CONTROL	-	
		POSITRONICS	-	
		DELTA CONTROL	-	
		L & T	-	
		GE POWER	-	
		PYROTECH	-	
		C & S	-	
55	TANK (FRP)	INDUSTRIAL SERVICE	KOLKATA	
		SUNRISE	BARODA	
		GANDHI & ASSOCIATES	AHMEDABAD	
		MODERN EQUIPMENTS	CHENNAI	
		EAGLE PLAST	PUNE	
		OMEGA PLAST	MUMBAI	
56	STROKE CONTROLLER	V K PUMPS	NASIK	
		METACHEM	MUMBAI	
		SWELORE	AHMEDABAD	
		MILTON ROY INDIA	CHENNAI	
57	SAFETY VALVES/RELIEF VALVES	METACHEM	MUMBAI	
		KEYSTONE	BARODA	
		V K PUMPS	NASIK	
		MILTON ROY	CHENNAI	
58	STRAINER	OTOKLIN	MUMBAI	
		GRAND PRIX	NEW DELHI	
		AYPEE	NEW DELHI	
59	ORIFICE PLATE	MICRO PRECISION	FARIDABAD	
		INSTRUMENTAION LTD	PALGHAT	
		CARLO DYNAMICS	HYDERABAD	



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60	SLUICE GATE	H SARKAR	KOLKATA	
		JASH ENGINEERING	-	
		YASHWANT INDUSTRIES	-	
61	3 WAY VALVE	HI TECH	AHMEDABAD	
		ADVANCE VALVES PVT.LTD	NOIDA	
		BDK	HUBLI	
		FOURESS ENGG.INDIA LTD.	MUMBAI	
		FLUIDLINEVALVES COMPANY PRIVATE LTD.,	MUMBAI	
		INSTRUMENTATION LTD.	PALAKAD	
		KIRLOSKAR BROTHERS LTD.	PUNE	
		VENUS PUMP & ENGG. WORKS	KOLKATA	
		Surya Valves and Instruments Manufacturing Company	Chennai	
		STAFFORD CONTROLS LIMITED	PUNE	
MICON VALVES (INDIA) PVT.LTD	MUMBAI			
62	PLUG VALVE(MANUAL)	BDK	HUBLI	
		HAWA ENGINEERS / MARCK & CARE	-	
		MICON VALVES	-	
		MICON VALVES (INDIA) PVT.LTD	MUMBAI	
63	FITTINGS (CS/SS)	M.S. FITTINGS	KOLKATA	
		METAL LLOYDS	MUMBAI	
		TRUE FORGE	FARIDABAD	
		TUBE PRODUCTS	BARODA	
		NL HAZRA	KOLKATA	
		GUJRAT INFRA PIPES	BARODA	
		EDWARDS	USA	
		PIPEFIT ENGINEERS	BARODA	
		SIDDARTH & GAUTAM	FARIDABAD	
		EBY	MUMBAI	
64	FLANGES (SS/CS)	PRADEEP METALS LTD	MUMBAI	
		TUBE PRODUCT INCOROPORATION	BARODA	
		MS FITTINGS	KOLKATA	
		HAWA ENGINEERING	-	
		ALIANCE PIPE & PLANGES	KOLKATA	
		JAI AMBE	MUMBAI	
65	PIPE & FILLTING (PP,HDPE,PVC & CPVC)	GEROGE FISHCHER	DELHI	
		ASTROL PLYTECHINC LTD	AHMEDABAD	
		JAIN IRRIGATION	-	
		ORIPLAST	-	



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66	VALVES (GATE/GLOBE/NRV/BALL)- (PP,HDPE,PVC & CPVC)	GEROGE FISHCHER IPING SYSTEMS PVT LTD	DELHI	
		ASTROL PLYTECHINC LTD	AHMEDABAD	
		JAIN IRRIGATION	-	
		ORIPLAST	-	
67	AIR FILTER REGULATOR	SHAVO NORGEN	-	
		PLACKA INSTRUMENTS	-	
68	FILTER MEDIA	GLOBAL ABSORBENT	KOLKATA	
		BHARAT MINERALS		
69	BATTERIES	AMCO (BATTERY NI-CD)	BANGALORE	
		HBL (BATTERY NI-CD)	HYDERABAD	
		SAFT	FRANCE/SWEDEN	
70	PAINT	BERGER	-	
		ASIAN PAINTS	-	
		SHALIMAR PAINTS	-	
		KANSAI NEROLAC	-	
		AKZO NOBEL	-	
71	PNEUMATIC ACTUATOR	PROCON ENGINEERS	-	
		TYCO	-	
		CRANE PROCESS	-	
		BDK	-	
		INTERVALVE	-	
		BRAY CONTROL	-	
72	MOTORISED ACTUATOR	ROTARK	-	
		AUMA	-	
		LIMITORK	-	
73	CABLE TRAYS	RATAN ENGG	-	
		INDIANA	-	
		DOLPHIN	-	
		INDUSTRIAL PERFORMATIONS	-	
		MJ ENGG	-	
		ANAND UDYOG	-	
		VATCO	-	
STEELITE	-			



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74	INSTRUMENT FITTING	AURA INCORPORATED	NEW DELHI	
		ASTEC VALVES & FITTINGS PVT. LTD.,	MUMBAI	
		ARYA CRAFTS & ENGINEERING PVT. LTD.	MUMBAI	
		COMFIT & VALVE PVT. LTD.	AHMEDABAD	
		FLUIDFIT ENGINEERS PVT. LTD.	MUMBAI	
		FLUID CONTROLS PVT. LTD.	MUMBAI	
		HP VALVES & FITTINGS INDIA PVT. LTD.	CHENNAI	
		PRECISION ENGINEERING INDUSTRIES	MUMBAI	
		PANAM ENGINEERS,	MUMBAI	
		PERFECT INSTRUMENTATION CONTROL (INDIA) PVT. LTD.	MUMBAI	
		VIKAS INDUSTRIAL PRODUCTS	NOIDA	

NOTE:

THE SUB VENDOR LIST ENCLOSED ANNEXURE-I IS INDICATIVE ONLY AND IS SUBJECT TO APPROVAL / ACCEPTANCE BY CUSTOMER (TSGENCO). BIDDER TO PROPOSE HIS SUB VENDOR LIST WITH BACK UP DOCUMENTS (EXPERIENCE LIST, END USER CERTIFICATE AS APPLICABLE) ETC. THE SAME SHALL SUBJECT TO BHEL AND CUSTOMER APPROVAL DURING DETAILED ENGINEERING STAGE WITHOUT ANY TECHNICAL, COMMERCIAL & DELIVERY IMPLICATIONS TO BHEL/TSGENCO.