

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
Atmospheric storage tanks	mechanical	atmospheric		Crystal Engineering Systems Pvt.Ltd.	Survey No:1186/2A & 2B Opp. to FIEM Industries Kelamangalam road Achettipalli (P.O.), HCF (Via) Hosur-635110. Tamilnadu, India. Phone : 91-4344-656053, 656062 Mobile : +91-9443358771/9655218771 Email : enquiry@crystalengineeringsystems.com	
Atmospheric storage tanks	Mechanical	atmospheric		ISHAN EQUIPMENTS PVT. LTD	(UNIT- I) 404 - 405, GIDC Industrial Estate,  B/h L&T NIRO,  Ranoli - 391 350,  Dist Baroda (Gujarat) India  +91-0265-2308589  +91-0265-2241217  info@ishanequipments.com	
Atmospheric storage tanks	MECHANICAL	atmospheric	VESSELS	The Anup Engineering Limited	The Anup Engineering Limited Soni ni chali, G I D C Industrial Area, Odhav, Ahmedabad, Gujarat 382350 Telephone +91-79-2287 0622 +91-79-4025 8900  Fax +91-79-2287 0642  Sales Related marketing@anupengg.com  Procurement procurement@anupengg.com	
Atmospheric storage tanks	MECHANICAL	atmospheric	VESSELS	SPARK ENGINEERS	Address: 'J' Block, Plot No. 429, MIDC, Bhosari, Pune - 411 026 Ph:(020) 46768504 / 66113897Telefax:(020) 27130510 / 66113897 Email:info@sparkengineers.co.in	
Atmospheric storage tanks	Mechanical	atmospheric		Murthal Tanks & Vessels	50 K.M Stone(Link Road Kurar) G.T. Road, Murthal, Sonipat 131001 Haryana, India Phone 1: +91 9812003117  Phone 2: +91 9991410000  Phone 3: +91 8254900009 info@murthaltanks.com  mtv_murthal@yahoo.co.in	
Atmospheric storage tanks		atmospheric		SYSCON ENGINEERS	Contact Person : Mr. C. A. Benadikar  207, Dhanlaxmi Service Industrial Estate, Above Navneet Motors, L. B. S. Marg, Thane (W) - 400 601. Maharashtra ( INDIA)  Tel. No. : +91-22-2172 1108, 4088 Telefax No. : +91-22-2172 1497  E-mail :head	
Atmospheric storage tanks	vessels	atmospheric		Jasmino Polymertech Pvt Ltd	Jasmino Polymertech Pvt Ltd M.Perumal (Manager) L ४४४ 61, MIDC Taloja, MIDC Taloja, Raigad - 410208, Maharashtra, India Call Us:  +91-9821948287	
Atmospheric storage tanks	MECHANICAL	atmospheric	VESSELS	S. V. Fabricators	S. V. Fabricators Satish Thakor(Proprietor) No. 856/9- E, GIDC Estate, Makarpura, Makarpura Gidc, Vadodara - 390010, Gujarat, InDIA Call Us:  +91-9726716894 Send SMS	
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	NICOTRA INDIA PVT LTD		
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	Patels Airflow Limited		

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AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	ADVANCE VENTILATION PVT. LTD.	SUMIT CHAUDHARY, 610, PP Towers, C1,2&3 PP Towers, Netaji Subhash Place, Pitampura, New Delhi, Phone- 0130-2219092-96, Pincode : 110034, Email : sales@advanceventilation.com,	
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	CBDOCTOR VENTILATORS PVT. LTD.	Postal address :3607 / 3608 GIDC Estate, Phase IV, Vatva, Ahmedabad - 382 445Telephone +91 79 40268700, 25841449, 25841152, 25842087, 25840448 FAX : +91 79 40268799, 25842216 (Gujarat) - INDIA Customer Care : +91 9426752941 email: marketing@cbdoctor.c	
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	SARLA		
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	S.K.SYSTEMS PRIVATE LTD.	PLOT NO.150-151 HSIDC IND AREA PH-II KUNDLI, SONEPAT, Phone- Pincode : 131028 Email : sksystem@eth.net; skskundli@gmail.com	
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	KHAITAN		
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	KRUGER		
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	FLAKT		
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	Marathon Electric		
AXIAL FLOW FANS/RE UNITS	Mechanical	Fan	Axial Flow	HYDERABAD POLUTION CONTROLS LIMITED		
BALL VALVES	Mechanical	Valve	Ball	CRESCENT VALVES MFG CO. PVT. LTD	BLUE HAVEN 15 FAROOQ S UMAR STREET MUMBAI Phone- 02223014026 Pincode : 400011 Email : mehboob@cresevalves.com	"Size upto 50NB Class 800 with MOC as FSS/FCS/Gun Metals and Ball Valves size upto 200NB upto class 150 with MOC as CCS/ CSS".
BALL VALVES	Mechanical	Valve	Ball	WEIR BDK VALVES- A UNIT OF WEIR INDIA PVT. LTD.	DLF Tower-B, Unit No: 1212, 1214 & 1215, 12th Floor, Jasola District Centre, Sarita Vihar, New Delhi - 110044 NEW DELHI Phone- 011-40503345/ 46/ 47 Pincode : 110044 Email : Brijesh.Manchanda@mail.weir	
BALL VALVES	Mechanical	Valve	Ball	BELGAUM AQUA VALVES PVT. LTD.	M-19, INDUSTRIAL ESTATE UDYAMBAG, BELGAUM Phone- 0831-441952, 442194 Pincode : 590008 Email : sales@aquavalv.com	
BALL VALVES	Mechanical	Valve	Ball	DELVAL FLOW CONTROLS PVT. LTD.	Mr. Arun Shiroor 414, 4th Floor, Vishal Chamber, P-1, Sector - 18, Noida Phone- 02169241285 Pincode : 201301 Email : gchoudhary@deltechcontrols.com	MOC Steel only
BALL VALVES	Mechanical	Valve	Ball	Sap Industries Limited	10-A, Krishna Industrial Estate Nr. Sukhrampura Post Office Nagarvel Hanuman Road Ahmedabad Phone- 9879293029 Pincode : 380023 Email : pankaj@sapvalves.com	a. Up to Cl. 800 for sizes 15NB to 50NB with MOC as FCS/FSS only. b. up to CL. 600 for sizes 65NB to 350NB with MOC as CCS/ CSS only.
BALL VALVES	Mechanical	Valve	Ball	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	(1) BALL VALVES: FCS/FSS - 1/2" to 2" #800 & CCS/ CSS - 2.1/2" to 4" # 150 (2) BALL VALVES: GUN METAL VALVES SIZE 15 NB TO 80 NB - UPTO PN16.0
BALL VALVES	Mechanical	Valve	Ball	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	"Size 15 NB to 50 NB, #800/ #PN16, MOC as FCS/FSS/Gun Metal" and "Size 65 NB to 200 NB, up to #300, MOC as CCS/ CSS/ CAS".
BALL VALVES	Mechanical	Valve	Ball	INTERVALVE POONAWALLA LTD.	212/2, HADAPSAR, OFF SOLI POONAWALLA ROAD, PUNE Phone- 020-26602630 Pincode : 411028 Email : vkathuria@poonawallagroup.com	Steel ball Valves upto 50NB, #800 and 65NB to 150NB. #150
BALL VALVES	Mechanical	Valve	Ball	Hawa Valves (India) Pvt. Ltd.	Mr. Javed A Hawa R-16 & R-954, MIDC TTC Industrial Area, Sector 8, Rabale, Thane Belapur, Navi Mumbai Phone- 022-67760139 Pincode : 400701 Email : info@hawavalves.com	Size up to 2" & #800 with MOC as FCS & FSS and for size from 65 NB to 150 NB & #150 with MOC as CCS and CSS.
BALL VALVES	Mechanical	Valve	Ball	VALTECH INDUSTRIES	B-5 , NEW SONAL IND.ESTATE SAKI VIHAR ROAD MUMBAI Phone- Pincode : 400072 Email : farooq@valtechindustries.com	"Size 15 NB to 50 NB, #800/ #PN16, MOC as FCS/FSS/FAS/Gun Metal" and "Size 65 NB to 200 NB, up to #150, MOC as CCS/ CSS/ CAS".
BALL VALVES	Mechanical	Valve	Ball	MICON VALVES (INDIA) PVT. LTD.	7, WADEE MANZIL, 2ND FLOOR, OPP. MEMON CO-OP. BANK, 75-77E, LADY JAMSHEDJI ROAD, MAHIM, MUMBAI Phone- 24460711/0712 Pincode : 400016 Email : miconvalve@vsnl.net	"Size 15 NB to 50 NB, #800/ #PN16, MOC as FCS/FSS/Gun Metal" and "Size 65 NB to 500 NB, up to #600, MOC as CCS/ CSS".
BALL VALVES	Mechanical	Valve	Ball	MEVADA ENGINEERING WORKS PVT LTD.	Mr. Rakesh Mistry Unit No 1,Plot No 9,Mistry Industrial Estate,J. B. Patel Road, Goregaon East, Mumbai Phone- 022-42523200 Pincode : 400063 Email : rpm@saturvalves.com	Size upto 300 NB, CL#300 with MOC as CCS and CSS only;
BALL VALVES	Mechanical	Valve	Ball	HAWA ENGINEERS LTD.	Mr. M. N. Pathan Plot No.129, Near Kashiram Textile Mill, Narol Road, Ahmedabad Phone- 079-25320781 Pincode : 382405 Email : pathan@hawaengitd.com	" Size 15 NB to 50 NB, #800/ #PN16, MOC as FCS/FSS/ Gun Metal "and "Size 65 NB to 600 NB, up to #150, MOC as CCS/ CSS/ CAS".
BALL VALVES	Mechanical	Valve	Ball	UNIFLOW	Mr. M. T. Palaniyandi SP-9, First Main Road, Ambattur Industrial Estate, Chennai Phone- 9884051834 Pincode : 600058 Email : info@uniflowvalves.com	
BALL VALVES	Mechanical	Valve	Ball	MICROFINISH VALVES PVT LTD.	B161-162, INDUSTRIAL ESTATE, GOKUL ROAD, HUBLI Phone- 2212404,2210611 Pincode : 580030 Email : ajm@microfinishgroup.com	
BALL VALVES	Mechanical	Valve	Ball	A.V. VALVES LTD	Mr. Anil Sharma 16, INDUSTRIAL ESTATE NANHAI AGRA Phone- 05622281202 Pincode : 282 006 Email : info@avvalves.com,avvalves@sancharnet.in	

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BALL VALVES	Mechanical	Valve	Ball	Canle Valves Private Limited	No. 52, SIDCO Industrail Estate Pollachi Main Road Coimbatore Phone- 04222679972 Pincod : 641021 Email : marketing@canlevalve.com	"Steel Ball Valves: Size 65 NB to 300NB, #150 & MOC as CCS/CSS"
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	FLUIDLINE VALVES COMPANY PVT.LTD.	Mr. Balwant Mehra K.M. Trade Tower, Unit no. 905, 10thFlr Radisson Blu Hotel), Kaushambi Sec-14 Ghaziabad Phone- 0120-4242204 Pincod : 201010 Email : fluidlinedelhi@gmail.com	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	WEIR BDK		
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	AUDCO		
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	SURYA VALVES AND INSTRUMENTS MFG CO		
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	INSTRUMENTATION ENGINEERS PVT LTD	SH.N.V.RAM GOPAL/MS. N.NIHARIKA PLOTS 1,2,3, PHASE-III, IDA, JEEDIMETLA HYDERABAD Phone- 9848407365 Pincod : 500055 Email : iedelhi@iefflowmeters.com	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	ADVANCE VALVES PVT. LTD.	B-33, SECTOR-2, NOIDA Phone- + 91 -120 - 4796900 Pincod : 201301 Email : m.shahnawaz@advancevalves.com	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	UPADHAYA VALVES MANUFACTURERS PRIVATE LIMITED,	23A, NETAJI SUBHAS ROAD, 6TH FLOOR, ROOM NO 6, KOLKATA, Phone- 033-22309598, Pincod : Email : ritauvml@gmail.com, amituvml@gmail.com,	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	TYCO		
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	INTERVALVE POONAWALLA LTD.	212/2, HADAPSAR, OFF SOLI POONAWALLA ROAD, PUNE Phone- 020-26602630 Pincod : 411028 Email : vkathuria@poonawallagroup.com	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	FOURESS ENGG		
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	R and D MULTIPLES (METAL CAST) PVT LTD	106, UNITED INDUSTRIAL ESTATE, MOGUL LANE, MAHIM, MUMBAI Phone- 24374430,24371883 Pincod : 400016 Email : rdmultiples@gmail.com,,rdmuldelhi@gmail.com	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	KEYSTONE		
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	BDK		
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	VENUS PUMPS AND ENGG. WORKS	40, STRAND ROAD, 1st FLOOR, KOLKATA Phone- 033-26531546 Pincod : 700001 Email : venus.rajesh68@gmail.com	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD.	Mr. Vipin Kumar Singhal, Solitaire   5th & 6th Floor, S.No. 131 / 1+2   ITI Road, Aundh Pune Phone- 8800717115 Pincod : 411007 Email : vkumar@cranecpe.com	
BUTTERFLY VALVE	Mechanical	Valve	Butterfly	PENTAIR VALVES AND CONTROLS INDIA PRIVATE LIMITED		
BUTTERFLY VALVES (WATER SYSTEMS)	Mechanical	Valve	Butterfly	INSTRUMENTATION LTD.	KANJIKODE WEST, PALALKKAD, PALAKKAD Phone- 2566127-130,2567128 Pincod : 678623 Email : icvdil@gmail.com,fa2@ilpgt.com	
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	ADVANCE VALVES PVT. LTD.	B-33, SECTOR-2, NOIDA Phone- + 91 -120 - 4796900 Pincod : 201301 Email : m.shahnawaz@advancevalves.com	
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD.	Mr. Vipin Kumar Singhal, Solitaire   5th & 6th Floor, S.No. 131 / 1+2   ITI Road, Aundh Pune Phone- 8800717115 Pincod : 411007 Email : vkumar@cranecpe.com	"CI.#150, PN16, Size up to 450 NB MOC as CI/CCS/CSS/Duplex-SS"
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	INSTRUMENTATION LTD.	KANJIKODE WEST, PALALKKAD, PALAKKAD Phone- 2566127-130,2567128 Pincod : 678623 Email : icvdil@gmail.com,fa2@ilpgt.com	
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	UPADHAYA VALVES MANUFACTURERS PRIVATE LIMITED,	23A, NETAJI SUBHAS ROAD, 6TH FLOOR, ROOM NO 6, KOLKATA, Phone- 033-22309598, Pincod : Email : ritauvml@gmail.com, amituvml@gmail.com,	MOC-Cast Iron, size from 65 NB to 350 NB having rating of PN10 as per BS EN 593.
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	R and D MULTIPLES (METAL CAST) PVT LTD	106, UNITED INDUSTRIAL ESTATE, MOGUL LANE, MAHIM, MUMBAI Phone- 24374430,24371883 Pincod : 400016 Email : rdmultiples@gmail.com,,rdmuldelhi@gmail.com	
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	WEIR BDK VALVES- A UNIT OF WEIR INDIA PVT. LTD.	DLF Tower-B, Unit No: 1212, 1214 & 1215, 12th Floor, Jasola District Centre, Sarita Vihar, New Delhi - 110044 NEW DELHI Phone- 011-40503345/ 46/ 47 Pincod : 110044 Email : Brijesh.Manchanda@mail.weir	
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	VENUS PUMPS AND ENGG. WORKS	40, STRAND ROAD, 1st FLOOR, KOLKATA Phone- 033-26531546 Pincod : 700001 Email : venus.rajesh68@gmail.com	
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	INTERVALVE POONAWALLA LTD.	212/2, HADAPSAR, OFF SOLI POONAWALLA ROAD, PUNE Phone- 020-26602630 Pincod : 411028 Email : vkathuria@poonawallagroup.com	
BUTTERFLY VALVES(WATER SYSTEMS)	Mechanical	Valve	Butterfly	PENTAIR VALVES & CONTROLS I PVT LTD( FOR	SEMPELL GmbH MAKE VALVES ONLY) R-701, TTC MIDC INDL ESTATE, RABALE NAVI MUMBAI Phone- Pincod : 400708 Email : bjha@tycoint.com	
CABLE GLAND	Electrical	cable	Glands	COMMET		
CABLE GLAND	Electrical	cable	Glands	DOWELL		
CABLE GLAND	Electrical	cable	Glands	SUNIL&CO		
CABLE GLAND	Electrical	cable	Glands	JAINSON		
CABLE GLAND	Electrical	cable	Glands	ARUP ENGINEERING		

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CAST IRON GATE/GLV/NRV/SRV	Mechanical	Valve	CAST IRON GATE/GLV/NRV/SRV	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	(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)
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	NICOTRA INDIA PVT LTD	Kasna Village, Greater Noida, Uttar Pradesh 201310 Phone: 099110 48003	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	ADVANCE VENTILATION PVT. LTD.	SUMIT CHAUDHARY, 610, PP Towers, C1,2&3 PP Towers, Netaji Subhash Place, Pitampura, New Delhi, Phone- 0130-2219092-96, Pincode : 110034, Email : sales@advanceventilation.com,	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	Patels Airflow Limited	Vatva, Ahmedabad - 382445, Gujarat. India. PHONE: +91-79-25831536 +91-79-25830658 +91-79-40200800	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	DRAFT-AIR INDIA PVT. LTD.	Head Office 3702 - B & C, Phase-IV, B/h. New Nirma, GIDC, Vatva, Ahmedabad 382 445 INDIA. Phone +91 79 4023 9898 , 40239800 Fax +91 79 2584 1867	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	KRUGER	TEL: 91 9960558899 91 9975577211 FAX: 91 2527240075	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	SARLA	10A, ALIPORE PARK PLACE, 402, ANANDKANAN KOLKATA WB 700027 IN siwolkolkata@saralafans.com	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	Marathon Electric	708, 516-518, Antriksh Bhawan 5th Floor, 22 K.G.Marg New Delhi - 110001 011-43509363, 011-43509364	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	CBDOCTOR VENTILATORS PVT. LTD.	Postal address :3607 / 3608 GIDC Estate, Phase IV, Vatva, Ahmedabad - 382 445 Telephone +91 79 40268700, 25841449, 25841152, 25842087, 25840448 FAX : +91 79 40268799, 25842216 (Gujarat) - INDIA Customer Care : +91 9426752941 email: marketing@cbdoctor.c	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	S.K.SYSTEMS PRIVATE LTD.	PLOT NO.150-151 HSIDC IND AREA PH-II KUNDLI, SONEPAT, Phone- Pincode : 131028 Email : sksystem@eth.net; skskundli@gmail.com	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	HYDERABAD POLUTION CONTROLS LIMITED	IDA Jeedimetla, Chintal, Quthbullapur, Hyderabad, Telangana 500054 Mr. S Gopala Krishnan Nair Ph : +91-40-23090033 Fax : +91-40-23095119	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	COMEFRI	Guangzhou Comefri (China) Co.Ltd Address Suite 1201, North Tower, New World Time Center No. 2191, Guang Yuan Dong Road, Guangzhou 510500, P. R. China Guangdong Province People's Republic of China Telephone 0086-20-87731890 / 1 Fax 0086-20-87731893 Company	
CENTRIFUGAL FAN	Mechanical	Fan	Centrifugal	FLAKT	3B, Ecotech-II, Udyog Vihar, Greater Noida, Dist. GB Nagar Greater Noida- 201306(UP), India salessupport.in@flaktgroup.com +91 120 4982050	
CHAIN PULLEY BLOCK	Package			TUOBRO FURGUSON (INDIA) PVT LTD	84/A , AIC BOSE ROAD, 2ND FLOOR , FLAT NO.205, KOLKATA-700 014 KOLKATA Phone- 23501955 Pincode : 700014 Email : toubro@hotmail.com	UPTO 10 TONNE.
CHAIN PULLEY BLOCK	Package			TRACTEL TIRFOR INDIA PVT. LTD.	DODHALA ROAD, PO- PRITHLA PALWAL FARIDABAD FARIDABAD Phone- 9810000294 Pincode : 121102 Email : dsctractel@gmail.com	
CHAIN PULLEY BLOCK	Package			BAKELITE ELECTRICAL MFG. CO. PVT. LTD.	74CD, GOVT. INDL. ESTATE, CHARKOP NEAR GANESH NAGAR, KANDIVALI WEST MUMBAI Phone- 02228682763 Pincode : 400067 Email : bemcopvt@yahoo.com	
CHAIN PULLEY BLOCK	Package			TECHNO INDUSTRIES	Mr. Nirag Chokshi Plot No-613, Phase-IV, GIDC, Vatva, Ahmedabad Phone- 079-25830742 Pincode : 382445 Email : info@technoind.com	
CHAIN PULLEY BLOCK	Package			Universal Hoist-O-Fabrik	Mr. Pradeep K. Kamath Plot No. B/71, Road No. 21 Wagle Industrial Estate Thane Phone- 9820274412 Pincode : 400604 Email : universalhoist@yahoo.com	
CHAIN PULLEY BLOCK	Package			BRADY & MORRIS ENGINEERING CO. LTD.	Mr. M. Kumar Plot No. 505, Phase IV, GIDC Vatva, Ahmedabad Phone- 079-40236400 Pincode : 382445 Email : mkumar@bradys.in	
CHAIN PULLEY BLOCK	Package			CENTURY CRANE ENGINEERS PVT. LTD.	16/6, MATHURA ROAD, FARIDABAD FARIDABAD Phone- 0129- 4048863 Pincode : 121 002 Email : centurycranes@gmail.com	
CONTROL PANEL	Electronics	Panel	Control	CONTROL & SWITCHGEAR		
CONTROL PANEL	Electronics	Panel	Control	PYROTECH ELECTRONICS PVT. LTD.	Unit-IV, A-193, M.I.A. Dadri, UDAIPUR Phone- 2492122,31,34 Pincode : 313003 Email : pyrotech@pyrotechindia.com	

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CONTROL PANEL	Electronics	Panel	Control	RITTAL		
CONTROL PANEL	Electronics	Panel	Control	INDUSTRIAL CONTROLS & APPLIANCES PVT LTD	47, CHAKALA ROAD, ANDHERI(EAST), MUMBAI Phone- 28344494,28221532 Pincode : 400099 Email : indconapp@vsnl.com	
CONTROL PANEL	Electronics	Panel	Control	GE POWER		
CONTROL PANEL	Electronics	Panel	Control	POSITRONICS		
CONTROL PANEL	Electronics	Panel	Control	SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
CONTROL PANEL	Electronics	Panel	Control	L and T- SARGENT and LUNDY LTD	L & T ENERGY CENTER, CHHANI JAKAT NAKA, VADODARA Phone- 2772390,2776391 Pincode : 390002 Email : ltsl@litedtindia.com	
CONTROL PANEL	Electronics	Panel	Control	HOFFMAN		
CONTROL VALVE	Electronics	Valve	Control	SPX Flow Technology	Patidar Showroom, Chotalal Chaly, Adinath Rd, G I D C Industrial Area, Odhav, Ahmedabad, Gujarat 382415	
CONTROL VALVE	Electronics	Valve	Control	Holter Regelarmaturen Verwaltungs GmbH	Helleforthstraße 58, 33758 Schloß Holte- Stukenbrock, Germany +49 5207 89030	
CONTROL VALVE	Electronics	Valve	Control	BOMAFSA SPECIAL VALVE SOLUTIONS PVT LTD	Mr. K.M. Anklesaria/ R. M. Anklesaria Plot No: 285/2, Panchratna Estate, Near Ramol Bridge, Vatva Ahmedabad Phone- 079-40083825 Pincode : 382445 Email : info@bomafa-india.com	
CONTROL VALVE	Electronics	Valve	Control	INSTRUMENTATION LTD.	KANIKODE WEST, PALALKKAD, PALAKKAD Phone- 2566127-130,2567128 Pincode : 678623 Email : icvdl@gmail.com;fa2@ilpvt.com	
CONTROL VALVE	Electronics	Valve	Control	Mascot Valves Pvt. Ltd.	166-167 GIDC Naroda Ahmedabad Phone- 0792282 1619 Pincode : 382330 Email : dom.sales@mascotvalves.com	
CONTROL VALVE	Electronics	Valve	Control	Valvitalia S.P.A.,	Mr. Salvatore Ruggeri Via Tortona 69, Rivanazzano (Pavia)Phone- +39-03839459875 Pincode : 27055 Email : dario.torluccio@valvitalia.com	
CONTROL VALVE	Electronics	Valve	Control	R.K.CONTROL INSTRUMENTS PVT. LTD.	PLOT NO.A-250, OPP.POLICE STATION, WAGLE INDUSTRIAL ESTATE, THANE Phone- 25820943/2331 Pincode : 400604 Email : rkcp@vsnl.com ; rkcpvt@bol.net.in	For subcritical power plant up to 150MW
CONTROL VALVE	Electronics	Valve	Control	Severn Glocon India Pvt. Ltd.	F96 & F97, Sipcot Industrial Park, Irungattukottai, Chennai, Phone- 044-47104200, Pincode : 602117, Email : info@severnglocon.co.in,	
CONTROL VALVE	Electronics	Valve	Control	FORBES MARSHALL ARCA PVT.LTD.	A-34/35 , MIDC ESTATE, H-BLOCK, PIMPRI, PUNE, Phone- 020-27442020, Pincode : 411018 Email : mnadgaundi@forbesmarshall.com	No technical limit exists except for feed control valve. For feed control valves, approved up to sub-critical power plants of 600 MW rating.
CONTROL VALVE	Electronics	Valve	Control	DRESSER VALVE INDIA PVT. LTD	Mr. Raj Raman/Mr. Rajkumar Moria S.F. No: 608,Chettipalayam Road, Echanari Post, Coimbatore Phone- +91-98451 19085 Pincode : 641021 Email : Anoop.Ramachandran@ge.com	
CONTROL VALVE	Electronics	Valve	Control	SAMSON CONTROLS PVT. LTD.	Mr. Atul raje-MD D 281, MIDC Ranjangaon Ta Shirur Pune Phone- 02067246600 Pincode : 412220 Email : sales@samsoncontrols.net	
CONTROL VALVE	Electronics	Valve	Control	WALDEMAR PRUSS ARMATURENFABRIK GMBH	Mr. Winfried Dremhel Schulenburglandstrasse 261, Hannover Phone- +49-511279260 Pincode : 30419 Email : dremhel@pruss.de; vogel@pruss.de	
CONTROL VALVE	Electronics	Valve	Control	SUZHOU DELAN ENERGY SCIENCE & TECHNOLOGY CO., LTD.	No 566 Fangqiao Road Caohu Industrial Park, Xiangcheng Economic Development Zone, Suzhou Phone- 008618012776062 Pincode : 215143 Email : jeanielei@delan-valve.com	
CONTROL VALVE	Electronics	Valve	Control	KSB MIL CONTROLS LTD.	Mr.Jacob Cherian/Mr.Geo Jolly Meladoor, Annamanada P.O. MALA, Thrissur Phone- 0480- 2695700 Pincode : 680741 Email : biju.simon@ksb.com	
CONTROL VALVE	Electronics	Valve	Control	DAUME REGELARMATUREN	AUMVN INDUSTRIAL PRODUCTS Address: Building No-3, Flat No-11, Vijay Vilas Complex, Thane West, Maharashtra, India, 400615, India  Phone: +91.2225971689  Fax: +91.22.2597.1672  madhu@aumvn.com	
CONTROL VALVE	Electronics	Valve	Control	Koso India Private Limited,	H 33 & 34, MIDC, Ambad, Nashik, Phone- 09650233433 Pincode : 422010, Email : jetmal.gour@koso.co.in	
CONTROL VALVE	Electronics	Valve	Control	EMERSON PROCESS MANAGEMENT CHENNAI LIMITED	147, KARAPAKKAM VILLAGE, CHENNAI Phone- 23722184, 23716242 Pincode : 600096 Email : jatinder.singh@emerson.com	
COOLING TOWER (FRP)	Mechanical	Cooling Tower	FRP	PAHARPUR		
COOLING TOWER (FRP)	Mechanical	Cooling Tower	FRP	BELL		
COOLING TOWER (FRP)	Mechanical	Cooling Tower	FRP	FLOWTECH		
COOLING TOWER (FRP)	Mechanical	Cooling Tower	FRP	MIHIR		
COOLING TOWER (FRP)	Mechanical	Cooling Tower	FRP	PCT		
COOLING TOWERS	Mechanical			HAMON SHRIRAM COTTRELL PVT. LTD.,	Main Frame,3A-8A, Ground Floor, Royal Plams Complex,Near Aarey Milk Col. Goregaon (E), Mumbai Phone- 09920751407, Pincode : 400065 Email : abhijit.bagde@hamon.com,	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
COOLING TOWERS	Mechanical			NATIONAL BUILDINGS CONSTRUCTION CORPORATION LTD.	Phone- Pincode : Email : bd.nbcc@nic.in	
COOLING TOWERS	Mechanical			Hamon Thermal Europe, S.A.	Axis Parc - Rue Emile Francqui 2, 1435 Mont-Saint-Guibert, Belgium, Phone- +32 10 390 500 Pincode : Email : info.hteb@hamon.com	
COOLING TOWERS	Mechanical			GAMMON INDIA LTD.	GAMMON HOUSE, VEER SAVARKAR MARG, P.O.BOX NO.9129, PRABHADEVI, MUMBAI Phone- 24306761,56614000 Pincode : 400025 Email : gammon@vsnl.com	
COOLING TOWERS	Mechanical			PAHARPUR COOLING TOWERS LTD.	PAHARPUR HOUSE, 8/1/B, DIAMOND HARBOUR ROAD, KOLKATA Phone- 24792050, 24791976 Pincode : 700027 Email : bk.shayani@paharpur.com	
COOLING TOWERS	Mechanical			PALTECH COOLING TOWERS & EQUIPMENTS LIMITED	Mr. H.P. Yadav B-604, Sushant Lok, Phase-1, Gurgaon Phone- 0124-4499700 Pincode : 122002 Email : paltech@paltech.net.in	For IDCT only;
CS ERW Pipe				Maharashtra Seamless Limited	Pipe Nagar, B. K. G. Road, Raigad, Maharashtra 402126 ☎: 02194 238 511	for FOHS upto 350 nb
CS ERW Pipe				Jindal Pipes Limited	CORPORATE OFFICE JINDAL CORPORATE CENTRE Plot No 30, Institutional Sector-44, Gurgaon - 122001 Haryana (India) Tel. : +91 124 2574325 / 26, 4624000 Fax : +91 124 2574327 Email : contact@jindalpipe.com  For Business Enquiry (Domestic) Mob: +91 - 9910849877	for FOH upto 350 nb
CS ERW Pipe				Surya Roshni Limited	( ERW Steel Pipe, MS, Galvanized, Hollow Section & CR Strip ) Prakash Nagar, Delhi-Rohtak Road,  Bahadurgarh -124507 (Haryana) India www.surya.co.in Phone No: +91-11-47108000  +91 1276 241540, 241980/81/82  Fax: +91 01276 241886 Email: bgh@surya.in	upto 400 nb for FOHS
CS ERW Pipe				Ratnamani Metals & Tubes Ltd	Registered & Corporate Office  17, Rajmugat Society, Naranpura Cross Roads, Ahmedabad - 380 013 Gujarat, India. info@ratnamani.com  +91 79 2741 5501/2/3/4 +91 79 2748 0999	
CS ERW Pipe				SAIL	DGM (PR) & CoC Rourkela Steel Plant Rourkela-769011, Odisha Email : rsp[dot]coc[at]gmail[dot]com Tel : 91 - 0661- 2510050	
CS ERW pipes				Indus Tubes Limited	GD - ITL Tower, Top Floor, B - 8, Netaji Subhash Place Ring Road, Pitampura, New Delhi - 110034. Phone :  +91-11-27352981 - 84.  Fax :  +91-11-47002413 / 27352985  E-mail :  industubes@yahoo.com, arvindkain_industubes@yahoo.in  Website :  www.industubes.	
CS ERW pipes				Welspun Corp Ltd	Welspun Corp. Ltd., Vadadla, Bharuch, Gujarat ☎: 02836 662 079	
CS ERW pipes				Mukat Pipes Limited	Rajpura-Patiala Road, Rajpura, 140401 Distt. Patiala, (NH-7) (Punjab) INDIA Email: mukat@mukatpipes.com, mukatpipes@gmail.com Telephone: (91) 01762-225040 Fax: (91) 01762-222390 Marketing/Enquiry Mob. No. (91) 85912-03725 & 93578-95440	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
CS ERW pipes				Pratibha Pipes & Structural Ltd.	Unit No. 1/B-56 & 1/B-57, 1st Floor, Phoenix Paragon Plaza, Phoenix Market City, LBS Road, Kurla (W), Mumbai – 400070. Maharashtra, India.  Contact No: +91 - 22 - 39559999 (Board) E-mail: info@pratibhagroup.com	
CS ERW pipes				Tata Steel Limited	P.O. Bistupur Jamshedpur - 831 001 Jharkhand, India 1 800 108 8282	
CS ERW Pipes				Samshi Pipes Industries Limited	Samshi Pipes Industries Limited HITESH PATEL(Customer Relationship Manager) Plot No. E/ 9, Savii GIDC Estate, Manjusar, Vadodara - 391165, Gujarat, India Call Us:  +91-9879854043	
CS ERW pipes				Lalit Pipes & Pipes Limited	#212, Hermes Atrium, Sector-11, C.B.D. Belapur, Navi Mumbai, Maharashtra. India – 400 614 +91 22 2756 11 69  info@lalitgroup.com   marketing@lalitgroup.com	
CS ERW Pipes				APL Apollo Tubes Limited	CORPORATE OFFICE Noida Tapasya Corporate Heights Tower A 4th Floor, Sector 126 Noida Uttar Pradesh 201303 ( India )  Tel: +91-120-4742700/701	
CS ERW pipes				PSL LIMITED	प्लॉट: B-96, Psl House, Greater Kailash I, New Delhi, Delhi 110048 फोन: 011 2923 8642	
CS ERW Pipes				DADU PIPES PRIVATE LIMITED	Dadu Dayal House, C-101, RDC, Rajnagar, Ghaziabad-201001, (U.P.) Phone No.+91-120-2705614 Mobile.+91-9268404282 Fax No.+91-120-2705613 Emailsatisshagarwal@dadupipes.com , info@dadupipes.com Websitewww.dadupipes.com	
CS ERW Pipes				JCO Gas Pipe Limited	B-2,Borgaon Industrial Area, MPAKVN Growth Centre,Borgaon, Tehsil Sausar, Chhindwara, Madhya Pradesh 480106 011 4710 5100	
CS Seamless Pipe				Jindal Pipes Limited	CORPORATE OFFICEJINDAL CORPORATE CENTRE Plot No 30, Institutional Sector-44, Gurgaon - 122001 Haryana (India) Tel. : +91 124 2574325 / 26, 4624000 Fax : +91 124 2574327 Email : contact@jindalpipe.com  For Business Enquiry (Domestic) Mob: +91 - 9910849877	for FOH upto 350 nb
CS Seamless Pipe				RMG Alloy Steel Limited	RMG Alloy Steel Ltd. B/9, Trade World, Kamala Mills Compound, Senapati Bapat Marg, Lower Parel (West), Mumbai - 400 013, Maharashtra, India.  Phone : +91 22 266136000 / 24908000  Fax : +91 22 24908020  Email: sales_pipes@remi.welspun.com sales_steel	
CS Seamless Pipe				The Indian Seamless Metal Tubes Limited		
CS Seamless Pipe				Maharashtra Seamless Limited	Pipe Nagar, B. K. G. Road, Raigad, Maharashtra 402126 फोन: 02194 238 511	for FOHS upto 350 nb
DUAL PLATE CHECK VALVES	Mechanical	Valve	check dual plate	ADVANCE VALVES PVT. LTD.	B-33, SECTOR-2, NOIDA Phone: + 91 -120 - 4796900 Pincode : 201301 Email : m.shahnawaz@advancevalves.com	
DUPLEX STRAINER	Mechanical	Strainer	Duplex	OTOKLIN GLOBAL BUSINESS LIMITED	R-02, "Remi Bizcourt", PLOT NO.09 SHAH INDUSTRIAL AREA,VEERA DESAI RAOD ANDHERI ( WEST ) MUMBAI Phone: 022 - 2673 2134/35 Pincode : 400053 Email : sales@otoklin.com	
DUPLEX STRAINER	Mechanical	Strainer	Duplex	NISAN SCIENTIFIC PROCESS EQUIPMENT PVT. LTD.	Mr. Nitin S. Nikam R-587/1, M.I.D.C. RABALE, T.T.C. INDL AREA NAVI MUMBAI Phone- 022- 27691220 Pincode : Email : sales@nisanprocess.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
DUPLEX STRAINER	Mechanical	Strainer	Duplex	SUNGOV ENGINEERING PVT. LTD.	MR. S PRAKASH 160 BABA NAGAR, VILLIVAKKAM CHENNAI Phone- 044 26501404 Pincode : 600049 Email : domesticsales@sungov.com	
DUPLEX STRAINER	Mechanical	Strainer	Duplex	FILTRATION ENGINEERS (I) PVT. LTD.	Plot No. W-62 (B) T.T.C Industrial Area MIDC , Rabale Navi Mumbai Phone- 02227608501 Pincode : 400701 Email : sales@feipl.com	
Duplex STRAINER	Mechanical	Strainer	Duplex	Jaypee Industries Pvt.Ltd.	Pocket K, Sarita Vihar, New Delhi, Delhi 110076 mob +91-9810115301	
Duplex STRAINER	Mechanical	Strainer	Duplex	Sungov Engineers Pvt.Ltd.	160, Baba Nagar, Villivakkam,	
DUPLEX STRAINER	Mechanical	Strainer	Duplex	JAY-EESH ENGINEERING COMPANY	Mr.JAYWANT MISTRY UNIT NO.17/20,ACHARYA INDUSTRIAL ESTATE, ANDHERI KURLA ROAD MUMBAI Phone- 9819914473 Pincode : 400072 Email : jayeesh_engg@rediffmail.com	
DUPLEX STRAINER	Mechanical	Strainer	Duplex	ACME FLUID SYSTEMS	Mr. Rakesh Sharma 152/2, Road No. 5, GIDC Kathwada, Ahmedabad Phone- 0120-2541259 Pincode : 383430 Email : rakesh@strainersindia.com	
DUPLEX STRAINER	Mechanical	Strainer	Duplex	MULTITEX FILTRATION ENGINEERS LIMITED	FILTRATION DIVISION, 217, HANS BHAWAN, BAHADURSHAH ZAFAR MARG, NEW DELHI Phone- 23378015/0923/0479 Pincode : 110002 Email : rajesh@multitexfilters.com	
DUPLEX STRAINER	Mechanical	Strainer	Duplex	BOMBAY CHEMICAL EQUIPMENTS	Mr. G. S. Luthra, Bombay Rubber Works Compound, Off. Saki Vihar Road, Near Universal Business Park, Andheri (E) Mumbai Phone- 022-66964249 Pincode : 400072 Email : sales@bombaychem.com	Flow upto 2270 CuM/Hr
DUPLEX STRAINER	Mechanical	Strainer	Duplex	GUJARAT OTOFILT	Mr. Mahesh I Patel Plot No. 3712 & 3714, Phase IV, GIDC Vatva B/H New Nirma, Ahmedabad Phone- 079-25841164 Pincode : 382445 Email : gujfilter@gmail.com	Flow upto 2700 CuM/Hr
DUPLEX STRAINER	Mechanical	Strainer	Duplex	GRAND PRIX ENGINEERING PVT. LTD.	Mr. B.S. Dhillon, Plot No. 82, Sector 25, Faridabad Phone- 0129-4097716 Pincode : 121004 Email : bsdhillon@grandprixfilters.com	
Duplex STRAINER	Mechanical	Strainer	Duplex	ALLWEILER INDIA PRIVATE LIMITED	C-1/10 , GIDC ESTATE VAPI Phone- Pincode : 396195 Email : sureshchandra.sharma@tushacopumps.com	
Duplex STRAINER	Mechanical	Strainer	Duplex	MULTITEX FILTRATION ENGINEERS LIMITED	FILTRATION DIVISION, 217, HANS BHAWAN, BAHADURSHAH ZAFAR MARG, NEW DELHI Phone- 23378015/0923/0479 Pincode : 110002 Email : rajesh@multitexfilters.com	
ELECTRIC HOIST	Package			Mangla Hoists Pvt Ltd	Mr. Nishant Mangla Jindal House, 1/9, Asaf Ali Road New Delhi Phone- 011-23237575 Pincode : 110002 Email : mangla@mangla.in	
ELECTRIC HOIST	Package			CONSOLIDATED HOISTS PVT LTD	PLOT NO.29/30, CO-OP.INDUSTRIAL ESTATE, GULTEKDI, PUNE-411037, PUNE Phone- 24271426,28-30 Pincode : 411037 Email : dpk@chpl.in	
ELECTRIC HOIST	Package			REVA INDUSTRIES LTD.	PLOT NO-28 , SECTOR 25 NIT , FARIDABAD Phone- 9899484741 Pincode : 121004 Email : grsharma@revacranes.com	
ELECTRIC HOIST	Package			CENTURY CRANE ENGINEERS PVT. LTD.	16/6, MATHURA ROAD, FARIDABAD FARIDABAD Phone- 0129- 4048863 Pincode : 121 002 Email : centurycranes@gmail.com	
ELECTRIC HOIST	Package			BRADY & MORRIS ENGINEERING CO. LTD.	Mr. M. Kumar Plot No. 505, Phase IV, GIDC Vatva, Ahmedabad Phone- 079-40236400 Pincode : 382445 Email : mkumar@bradys.in	
ELECTRIC HOIST	Package			Universal Hoist-O-Fabrik	Mr. Pradeep K. Kamath Plot No. B/71, Road No. 21 Wagle Industrial Estate Thane Phone- 9820274412 Pincode : 400604 Email : universalhoist@yahoo.com	
ELECTRIC HOIST	Package			Alpha Services	Mr. RB Dubey - President SPA-531, RIICO INDUSTRIAL AREA BHIWADI Phone- 01493-645136 Pincode : 301019 Email : rbd@alphaservices.co.in	
ELECTRIC HOIST	Package			TECHNO INDUSTRIES	Mr. Nirag Chokshi Plot No-613, Phase-IV, GIDC, Vatva, Ahmedabad Phone- 079-25830742 Pincode : 382445 Email : info@technoind.com	
ELECTRIC HOIST	Package			EDDY CRANES PVT. LTD.	3/23, TARDEO AIRCONDITIONED MARKET, TARDEO, MUMBAI Phone- 24945103,24961798 Pincode : 400034 Email : eddycranes@vsnl.com	
ELECTRIC HOIST	Package			TRACTEL TIRFOR INDIA PVT. LTD.	DODHALA ROAD, PO- PRITHLA PALWAL FARIDABAD FARIDABAD Phone- 9810000294 Pincode : 121102 Email : dsctractel@gmail.com	
ELECTRIC HOIST	Package			Grip Engineers Pvt. Ltd.,	Mr. Dwarshesh Lajpal Piyala Road, P.O. Sikri, Ballabgarh, Faridabad, Phone- 0129-2205004 Pincode : 121102 Email : fbd@gripengineers.com,	
FIRE DAMPER	Mechanical	Dampener	Fire	RAVISTAR (SYSTEM AIR )		
FIRE DAMPER	Mechanical	Dampener	Fire	CARRAIRE		
FIRE DAMPER	Mechanical	Dampener	Fire	TSC		
FITTINGS	Mechanical	FITTINGS		SIDDARTH & GAUTAM		
FITTINGS	Mechanical	FITTINGS		M.S. FITTINGS		
FITTINGS	Mechanical	FITTINGS		METAL LLOYDS		
FITTINGS	Mechanical	FITTINGS		GUJRAT INFRA PIPES		
FITTINGS	Mechanical	FITTINGS		TUBE PRODUCTS		
FITTINGS	Mechanical	FITTINGS		PIPEFIT ENGINEERS		
FITTINGS	Mechanical	FITTINGS		NL HAZRA		
FITTINGS	Mechanical	FITTINGS		TRUE FORGE		
FITTINGS	Mechanical	FITTINGS		EBY		
FITTINGS	Mechanical	FITTINGS		EDWARDS		



Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
FLOAT VALVES	Mechanical	Valve	float	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	
FLOAT VALVES	Mechanical	Valve	float	G.M. DALUI AND SONS PVT.LTD.	8, KUCHIL GHOSAL LANE, KADAMTALA, HOWRAH Phone- 26438929/4889 Pincode : 711101 Email : dassk15@gmail.com	
FLOAT VALVES	Mechanical	Valve	float	GM DAULI & SONS		
FLOAT VALVES	Mechanical	Valve	float	H.SARKER and COMPANY	13, CROOKED LANE, HOWRAH Phone- 9163692218 Pincode : 711113 Email : hsblt09@gmail.com ; hs_newdelhi@yahoo.comhsblt09@gmail.com	
FLOAT VALVES	Mechanical	Valve	float	H.SARKER and COMPANY	13, CROOKED LANE, HOWRAH Phone- 9163692218 Pincode : 711113 Email : hsblt09@gmail.com ; hs_newdelhi@yahoo.comhsblt09@gmail.com	
FLOAT VALVES	Mechanical	Valve	float	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	
FLOW ELEMENT	Electronics	element	flow	IL		
FLOW ELEMENT	Electronics	element	flow	STAR-MECH CONTROLS (I) PVT.LTD.	SUSHILLOTAM, SUSHILLOTAM, 29/3A/3, SASANE NAGAR, HADAPSAR, PUNE Phone- 02026970450 Pincode : 411028 Email : marketing@starmech.net	
FLOW ELEMENT	Electronics	INSTRUMENTS	Flow meter	STAR-MECH CONTROLS (I) PVT.LTD.	SUSHILLOTAM, SUSHILLOTAM, 29/3A/3, SASANE NAGAR, HADAPSAR, PUNE Phone- 02026970450 Pincode : 411028 Email : marketing@starmech.net	
FLOW ELEMENT	Electronics	INSTRUMENTS	Flow meter	INSTRUMENTATION LTD.	KANJIKODE WEST, PALAKKAD, PALAKKAD Phone- 2566127-130,2567128 Pincode : 678623 Email : icvdil@gmail.com;fa2@ilpvt.com	
FLOW ELEMENT	Electronics	element	flow	MICRO PRECISION PRODUCTS PVT. LTD.	Mr. SANJEEV CHAUHAN H.B. No.-40, Revenue Estate, Village-Dudhola, Tehsil & Distt. Palwal FARIDABAD Phone- 9871620282 Pincode : 121002 Email : Sanjeev.Chauhan@micro-precision.co.in	
FLOW ELEMENT	Electronics	INSTRUMENTS	Flow meter	TM TECNOMATIC SPA	MR. ANTONIO NOVIELLO/Mrs. Enrica Bazzoc VIA DELLE INDUSTRIE, 36 CREMONA Phone- 39037221574 Pincode : 26100 Email : info@tmtecnomatic.com	
FLOW ELEMENT	Electronics	element	flow	MINCO		
FLOW ELEMENT	Electronics	element	flow	BALIGA LIGHTING EQPT PVT LTD		
FLOW ELEMENT	Electronics	INSTRUMENTS	Flow meter	MICRO PRECISION PRODUCTS PVT. LTD.	Mr. SANJEEV CHAUHAN H.B. No.-40, Revenue Estate, Village-Dudhola, Tehsil & Distt. Palwal FARIDABAD Phone- 9871620282 Pincode : 121002 Email : Sanjeev.Chauhan@micro-precision.co.in	
FLOW ELEMENT	Electronics	element	flow	LIGHTING EQUIP		
FLOW ELEMENT	Electronics	element	flow	BRISTOL BABCOCK		
FLOW ELEMENT	Electronics	element	flow	ENGINEERING SPECIALITIES		
FLOW ELEMENT - NOZZLE	Electronics	Element	flow nozzle	DYNAFLUID VALVES AND FLOW CONTROLS (P) LTD.	Mr. Yogish M. Kulkarni Plot # 23, Udyambag, Belgaum Phone- 0831-4210386 Pincode : 590008 Email : yogish@dyna-fluid.com	
FLOW ELEMENT - NOZZLE	Electronics	Element	flow nozzle	MINCO (INDIA) FLOW ELEMENTS PVT. LTD.	Mr. Raghavendra M. Kulkarni D2-49/50, Tivim Industrial Estate, Karaswada Mapusa Phone- 0832-2257059 Pincode : 403526 Email : gicflowelement@giconindia.com	
FLOW ELEMENT - NOZZLE	Electronics	Element	flow nozzle	MICRO PRECISION PRODUCTS PVT. LTD.	Mr. SANJEEV CHAUHAN H.B. No.-40, Revenue Estate, Village-Dudhola, Tehsil & Distt. Palwal FARIDABAD Phone- 9871620282 Pincode : 121002 Email : Sanjeev.Chauhan@micro-precision.co.in	
FLOW ELEMENT - NOZZLE	Electronics	Element	flow nozzle	HYDROPNEUMATICS PVT. LTD.	Mr. DM Bichu G/B, Hill Crown Apts., College Road Mapusa Phone- 0832-2360364 Pincode : 403507 Email : ajayrc@hydropneumatics.co.in	
FLOW ELEMENT - NOZZLE	Electronics	Element	flow nozzle	INSTRUMENTATION LTD.	KANJIKODE WEST, PALAKKAD, PALAKKAD Phone- 2566127-130,2567128 Pincode : 678623 Email : icvdil@gmail.com;fa2@ilpvt.com	
FLOW ELEMENT - NOZZLE	Electronics	Element	flow nozzle	STAR-MECH CONTROLS (I) PVT.LTD.	SUSHILLOTAM, SUSHILLOTAM, 29/3A/3, SASANE NAGAR, HADAPSAR, PUNE Phone- 02026970450 Pincode : 411028 Email : marketing@starmech.net	
FLOW ELEMENT - NOZZLE	Electronics	Element	flow nozzle	MINCO (INDIA) PRIVATE LIMITED	Mr. Rajeev Vasudeva, D/35, TIVIM INDUSTRIAL ESTATE, KARASWADA, MAPUSA, Goa, Phone- 9313637073 Pincode : 403526, Email : gicdelhi@general-gauges.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	INSTRUMENTATION ENGINEERS PVT LTD	SH.N.V.RAM GOPAL/MS. N.NIHARIKA PLOTS 1,2,3, PHASE-III, IDA, JEEDIMETLA HYDERABAD Phone- 9848407365 Pincode : 500055 Email : ieddelhi@ieflowmeters.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	MINCO (INDIA) PRIVATE LIMITED	Mr. Rajeev Vasudeva, D/35, TIVIM INDUSTRIAL ESTATE, KARASWADA, MAPUSA, Goa, Phone- 9313637073 Pincode : 403526, Email : gicdelhi@general-gauges.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	CHEMTROLS INDUSTRIES PVT. LTD.	Mr. K. NANDAKUMAR AMAR HILL, SAKI VIHAR ROAD, POWAI, MUMBAI Phone- 022-67151261 Pincode : 400072 Email : manikandan@chemtrols.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	TANSA EQUIPMENTS PVT. LTD.	Mr. Vardhan Tamhankar, Unit No35/36/41,Om Anand Industrial Est. Mohanjee Sundarjee Road,Raghunath Nagar, Thane Phone- 022-25832323 Pincode : 400604 Email : tansaindia@gmail.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	INSTRUMENTATION LTD.	KANJIKODE WEST, PALALKKAD, PALAKKAD Phone- 2566127-130,2567128 Pincode : 678623 Email : icvldil@gmail.com;fa2@iligt.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	Flow Star Engineering Pvt. Ltd.,	MR. KHALID AKHTAR/MR. TAPAN KUMAR JANA Plot No-7 F/2, Northern India Industrial 20/3, Mathura Road FARIDABAD Phone- 9818176380 Pincode : 121005 Email : khalid@flowstar.co.in	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	DYNAFLUID VALVES AND FLOW CONTROLS (P) LTD.	Mr. Yogish M. Kulkarni Plot # 23, Udyambag, Belgaum Phone- 0831-4210386 Pincode : 590008 Email : yogish@dyna-fluid.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	HYDROPNEUMATICS PVT. LTD.	Mr. DM Bichu G/B, Hill Crown Apts., College Road Mapusa Phone- 0832-2360364 Pincode : 403507 Email : ajayrc@hydropneumatics.co.in	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	STAR-MECH CONTROLS (I) PVT.LTD.	SUSHILLOTAM, SUSHILLOTAM, 29/3A/3, SASANE NAGAR, HADAPSAR, PUNE Phone- 02026970450 Pincode : 411028 Email : marketing@starmech.net	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	MINCO (INDIA) FLOW ELEMENTS PVT. LTD.	Mr. Raghavendra M. Kulkarni D2-49/50, Tiwari Industrial Estate, Karaswada Mapusa Phone- 0832-2257059 Pincode : 403526 Email : gicflowelement@giconindia.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone- 9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
FLOW ELEMENT - ORIFICE	Electronics	Element	flow orifice	MICRO PRECISION PRODUCTS PVT. LTD.	Mr. SANJEEV CHAUHAN H.B. No.-40, Revenue Estate, Village-Dudhola, Tehsil & Distt. Palwal FARIDABAD Phone- 9871620282 Pincode : 121002 Email : Sanjeev.Chauhan@micro-precision.co.in	
FLOW METER	Electronics	Instrument	meter flow	PLACKA		
FLOW METER	Electronics	Instrument	meter flow	Flow Star Engineering Pvt. Ltd.,	MR. KHALID AKHTAR/MR. TAPAN KUMAR JANA Plot No-7 F/2, Northern India Industrial 20/3, Mathura Road FARIDABAD Phone- 9818176380 Pincode : 121005 Email : khalid@flowstar.co.in	
FLOW METER	Electronics	Instrument	Flow meter	EUREKA INDUSTRIAL EQUIPMENTS PVT.LTD.	Mr V. K. Pandit/Mr Ashish Shaha 17-20, Royal chambers, Paud Road Pune Phone- 9370469466 Pincode : 411038 Email : sales@eurekaflow.com	
FLOW METER	Electronics	Instrument	meter flow	INSTRUMENTATION ENGINEERS PVT LTD	SH.N.V.RAM GOPAL/MS. N.NIHARIKA PLOTS 1,2,3, PHASE-III, IDA, JEEDIMETLA HYDERABAD Phone- 9848407365 Pincode : 500055 Email : iedelhi@ieflowmeters.com	
FLOW METER	Electronics	Instrument	meter flow	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone- 9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
FLOW METER	Electronics	Instrument	meter flow	TRAC		
FLOW SWITCH	Electronics	Instrument	Switch flow	LEVCON INSTRUMENTS PVT. LTD.	Mr Shayak Gupta/Badal Jana Rajkamal', 7th floor, 13, Camac Street KOLKATA Phone- 0 33 2283 2766 Pincode : 700017 Email : b_jana@levcongroup.com	
FLOW SWITCH	Electronics	Instrument	Switch flow	SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	
FLOW SWITCH	Electronics	Instrument	Switch flow	V. AUTOMAT & INSTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL.AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
FLOW SWITCH	Electronics	Instrument	Switch flow	DK INSTRUMENTS		
FLOW SWITCH	Electronics	Instrument	Switch flow	SWITZER PROCESS INSTRUMENTS PVT. LTD.	Mr. V S Jayaprakash, 128, SIDCO North Phase, Ambattur Estates CHENNAI Phone- 044-26252017/2018 Pincode : 600050 Email : sales@switzerprocess.co.in	
FLOW SWITCH	Electronics	Instrument	Switch flow	SEIMENS		
FLOW TRANSMITTER	Electronics	Transmitter	FLOW	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
FRP Tanks				Polyplast Chemi-Plants (I) Pvt. Ltd.	Thakore Industrial Estate, Kurla-Kiroli Road, Vidyavihar (West), Mumbai - 400 086, Maharashtra, India. + 91-22-25116659 / 25112294 25162450 (022) 25117698	
FRP tanks				Deepa Composite India Private Limited	Deepa House, Plot No. 91/58, Kasgoan, Opposite Chanderi Dhaba Badlapur-Karjat Road, District Thane, Badlapur East, Badlapur-421505, Maharashtra, India Mahesh Panchal ( Business Manager )	
FRP Tanks				FRP Coroseal Industries	Plot-01, NH-05, Lankelapalem, Visakhapatnam(AP), Andhra Pradesh, India.	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
FRP Tanks				Global Composites LLC	Address: P.O.Box: 29722, Ras Al Khaimah, UAE Phone: + 971 7 2435237 Fax: + 971 7 2435239 Email: gc@global-composite.com Web: www.global-composite.com	
FRP Tanks				Chemical Process Equipments Pvt. Ltd. (CPE),	BSD Marg Govandi, Mumbai 400088, India +91 22 67230500 +91 22 2556 2248 cpe@vsnl.com	
FRP Tanks				EPP Composites Private Limited	Jayraj Shah Plot No. 2646, Kranti Gate Main Road, GIDC Rajkot - 360021 Gujarat, India Get Directions <a href="https://www.eppcpl.com">https://www.eppcpl.com</a>	
FRP Tanks				JR Fibreglass Industries Pvt. Ltd.	Add -1/21, Rocky Industrial Estate, I. B. Patel Road, Goregaon (East), Mumbai - 400 063, INDIA. Tel -+91-(0)22-26853603/04 Fax -+91-(0)22-26853606 Email -purchase@jrfibreglass.com (Purchase Department) sales@jrfibreglass.com (Sales/Marketing)	
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	SHIVADURGA		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	BANKIM & COMPANY		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	KBL		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	FLUID LINE		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	VENUS PUMPS AND ENGINEERING WORKS.	40, STRAND ROAD, 1st FLOOR, KOLKATA Phone-033-26531546 Pincode : 70001 Email : venus.rajesh68@gmail.com	
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	HI -TECH		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	AUDCO		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	SURYA VALVES AND INSTRUMENT MANUFACTURING		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	BOMBAY METAL & ALLOYS		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	SANT VALVES		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	GM DAULI & SONS		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	H.SARKER and COMPANY	13, CROOKED LANE, HOWRAH Phone-9163692218 Pincode : 711113 Email : hsb1t09@gmail.com ; hs_newdelhi@yahoo.comhsb1t09@gmail.com	
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	FOURESS ENGG		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	BDK		
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	KIRLOSKAR BROTHERS LTD.	KIRLOSKAR PRESS COMPOUND, UDYOG BHAWAN,TILAK ROAD, PUNE Phone-2447550,240672 Pincode : 411002 Email : kblin@kbl.co.in; gosain@del.kbl.co.in	
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	A.V. VALVES LTD	Mr. Anil Sharma 16, INDUSTRIAL ESTATE NANHAI AGRA Phone- 05622281202 Pincode : 282 006 Email : info@avvalves.com,avvalves@sancharnet.in	
GATE/GLOBE VALVES (CI)	Mechanical	Valve	GATE/GLOBE -CI	CRESCENT VALVES MFG CO. PVT. LTD	BLUE HAVEN 15 FAROOQ S UMAR STREET MUMBAI Phone- 02223014026 Pincode : 400011 Email : mehboob@crecentvalves.com	
GEARED MOTOR	Electrical	motor	geared	BONFIGLIOLI		
GEARED MOTOR	Electrical	motor	geared	IC		
GEARED MOTOR	Electrical	motor	geared	SEW		
GEARED MOTOR	Electrical	motor	geared	PREMIUM		
GEARED MOTOR	Electrical	motor	geared	PBL		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	RASHITRYA ISPAT NIGAM LTD.		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	TISCO		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	JINDAL		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	LLOYDS STEEL		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	TATA		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	ESSAR		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	ISPAT INDUSTRIES		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	SAIL		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	BHUSHAN STEELS		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	JSW STEEL		
GI SHEETS FOR DUCTING	Mechanical	Sheet	GI	INDIAN IRON & STEEL CO LTD.		
GRILL/DIFFUSER/VOLUME CONTROL DAMPER	Mechanical	Dampener	GRILL/DIFFUSER/VOLUME CONTROL	TSC		
GRILL/DIFFUSER/VOLUME CONTROL DAMPER	Mechanical	Dampener	GRILL/DIFFUSER/VOLUME CONTROL	CARYAIRE		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
GRILL/DIFFUSER/VOLUME CONTROL DAMPER	Mechanical	Dampener	GRILL/DIFFUSER/VOLUME CONTROL	RAVI STAR (SYSTEM AIR)		
GRILL/DIFFUSER/VOLUME CONTROL DAMPER	Mechanical	Dampener	GRILL/DIFFUSER/VOLUME CONTROL	AIR FLOW		
GRILL/DIFFUSER/VOLUME CONTROL DAMPER	Mechanical	Dampener	GRILL/DIFFUSER/VOLUME CONTROL	AIR MASTER		
GUN METAL VALVES	Mechanical	Valve	GATE/GLOBE -GM	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	
GUN METAL VALVES	Mechanical	Valve	GATE/GLOBE -GM	SANT VALVES		
GUN METAL VALVES	Mechanical	Valve	GATE/GLOBE -GM	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	
GUN METAL VALVES	Mechanical	Valve	Gun Metal	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	
GUN METAL VALVES	Mechanical	Valve	GATE/GLOBE -GM	VALTECH INDUSTRY	B-5 , NEW SONAL IND. ESTATE SAKI VIHAR ROAD MUMBAI Phone- Pincode : 400072 Email : farooq@valtechindustries.com	
GUN METAL VALVES	Mechanical	Valve	Gun Metal	VALTECH INDUSTRIES	B-5 , NEW SONAL IND. ESTATE SAKI VIHAR ROAD MUMBAI Phone- Pincode : 400072 Email : farooq@valtechindustries.com	GUN METAL SCREWED END TYPE , SCREWED IN BONNET , OUT SIDE SCREW & YOKE TPE , PN 16 , SIZES UPTO 50.
GUN METAL VALVES	Mechanical	Valve	Gun Metal	A.V. VALVES LTD	Mr. Anil Sharma 16, INDUSTRIAL ESTATE NANHAI AGRA Phone- 05622281202 Pincode : 282 006 Email : info@avvalves.com,avvalves@sancharnet.in	
GUN METAL VALVES	Mechanical	Valve	GATE/GLOBE -GM	A.V. VALVES LTD	Mr. Anil Sharma 16, INDUSTRIAL ESTATE NANHAI AGRA Phone- 05622281202 Pincode : 282 006 Email : info@avvalves.com,avvalves@sancharnet.in	
GUN METAL VALVES	Mechanical	Valve	Gun Metal	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	
HOOTERS	Electronics	Hooter		BEACON		
HOOTERS	Electronics	Hooter		KHERAJ		
HOOTERS	Electronics	Hooter		TARGET		
HOOTERS	Electronics	Hooter		OSC		
HUMID STAT	Electronics	Instrument	Humidity	JHONSON CONTROL		
HUMID STAT	Electronics	Instrument	Humidity	PENN		
HUMID STAT	Electronics	Instrument	Humidity	Honeywell Automation India Limited	Mr. Ritwaj Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : rajesh.chaudhary@honeywell.com	
HVAC FOR FGD	Package			ROOTS COOLING SYSTEMS PVT. LTD.	Mr. Pradeep Choudhary B-53,HOSIERY COMPLEX, PHASE-II NOIDA Phone- 098109-03848 Pincode : 201305 Email : rcspower@rootsdek.com	
HVAC FOR FGD	Package			VOLTAS LTD.	PUMPS DIVISION, P.O.BOX-72, VOLTAS HOUSE, 19, J.N.HERDIA MARG, BALLARD ESTATE, MUMBAI Phone- 22614715 Pincode : 400038 Email : ljha@voltas.com	
HVAC FOR FGD	Package			INDUSTRIAL PROJECT & PRODUCTS CO.	Mr. Surinder Singh, Plot No. 61, Block-7 Ward No.1,behind gyandeep school, Near sector-5 Gurgaon Phone- 8510044695 Pincode : 122001 Email : industrialppc.1@gmail.com	
HVAC FOR FGD	Package			STERLING AND WILSON PRIVATE LIMITED	PREMISES NO. GN-31, 2nd & 3rd FLOOR, SECTOR-5, SALT LAKE, KOLKATA-700091, KOLKATA, Phone- 9007042713 Pincode : 700091 Email : Swarup.mukherjee@sterlingwilson.com	
HVAC FOR FGD	Package			ADVANCE VENTILATION PVT.LTD.	SUMIT CHAUDHARY, 610, PP Towers, C1,2&3 PP Towers, Netaji Subhash Place, Pitampura, New Delhi, Phone- 0130-2219092-96, Pincode : 110034, Email : sales@advanceventilation.com,	
IDCT	Mechanical			NATIONAL BUILDINGS CONSTRUCTION CORPORATION LTD.	Phone- Pincode : Email : bd.nbcc@nic.in	
IDCT	Mechanical			GAMMON INDIA LTD.	GAMMON HOUSE, VEER SAVARKAR MARG, P.O.BOX NO.9129, PRABHADEVI, MUMBAI Phone- 24306761,56614000 Pincode : 400025 Email : gammon@vsnl.com	
IDCT	Mechanical			HAMON SHRIRAM COTTRELL PVT. LTD.,	Main Frame,3A-8A, Ground Floor, Royal Plams Complex,Near Aarey Milk Col. Goregaon (E), Mumbai Phone- 09920751407, Pincode : 400065 Email : abhijit.bagde@hamon.com,	
IDCT	Mechanical			PAHARPUR COOLING TOWERS LTD.	PAHARPUR HOUSE, 8/1/B, DIAMOND HARBOUR ROAD, KOLKATA Phone- 24792050, 24791976 Pincode : 700027 Email : bk.shayani@paharpur.com	
IDCT	Mechanical			PALTECH COOLING TOWERS & EQUIPMENTS LIMITED	Mr. H.P. Yadav B-604 ,Sushant Lok ,Phase-1, Gurgaon Phone- 0124-4499700 Pincode : 122002 Email : paltech@paltech.net.in	
INDICATING LAMPS	Electronics	panel	Lamp	TECKNIC		
INDICATING LAMPS	Electronics	panel	Lamp	BCH		
INDICATING LAMPS	Electronics	panel	Lamp	SIEMENS		
INDICATING LAMPS	Electronics	panel	Lamp	STANDARD		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	CGL		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	NGEF (up to 15KW)		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	JYOTI		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	KEC		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	BHARAT BIJU		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	MARATHON		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	MARATHON		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	KIRLOSKAR		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	BHARAT BIJLEE		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	CROMPTON		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	SIEMENS		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	NGEF		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	LHP		
INDUCTION MOTORS (LT)	Electrical	Motor	Induction LT	BHARAT ELECTRIC		
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	PRECISION ENGINEERING INDUSTRIES	K. SITARAM/ K. SRINIVAS 7,SIDHAPURA INDUSTRIAL ESTATE S.V. ROAD,GOREGAON(W) MUMBAI Phone- 022 42631700 Pincode : 400 062 Email : peiks@vsnl.com	
INSTRUMENT FITTINGS	Electronics	fittings	instruments	FLUIDFIT ENGINEERS PVT. LTD.	Mr. Abbas Bhola Potia Building No. 2, Office No. 3,292, Bellasis Road,Mumbai Central (East) Mumbai Phone- 9920044113 Pincode : 400008 Email : ab@fluidfitengg.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	FLUIDFIT ENGINEERS PVT. LTD.	Mr. Abbas Bhola Potia Building No. 2, Office No. 3,292, Bellasis Road,Mumbai Central (East) Mumbai Phone- 9920044113 Pincode : 400008 Email : ab@fluidfitengg.com	
INSTRUMENT FITTINGS	Electronics	Fittings	instrument	PRECISION ENGINEERING INDUSTRIES	K. SITARAM/ K. SRINIVAS 7,SIDHAPURA INDUSTRIAL ESTATE S.V. ROAD,GOREGAON(W) MUMBAI Phone- 022 42631700 Pincode : 400 062 Email : peiks@vsnl.com	
INSTRUMENT FITTINGS	Electronics	fittings	instruments	PRECISION ENGINEERING INDUSTRIES	K. SITARAM/ K. SRINIVAS 7,SIDHAPURA INDUSTRIAL ESTATE S.V. ROAD,GOREGAON(W) MUMBAI Phone- 022 42631700 Pincode : 400 062 Email : peiks@vsnl.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	Comfit & Valve Pvt. Ltd	Mr. Jeetu Jain/Mr. Vinay Sosa Survey No. 23/1, Part 2, Ahmedabad-Mehsana Highway Laxmipura, Nandasan Phone- 02764-267036/37 Pincode : 382705 Email : marketing@com-fit.com	
INSTRUMENT FITTINGS	Electronics	fittings	instruments	Perfect Instrumentation Control (India) Pvt. Ltd		
INSTRUMENT FITTINGS	Electronics	fittings	instruments	Comfit & Valve Pvt. Ltd	Mr. Jeetu Jain/Mr. Vinay Sosa Survey No. 23/1, Part 2, Ahmedabad-Mehsana Highway Laxmipura, Nandasan Phone- 02764-267036/37 Pincode : 382705 Email : marketing@com-fit.com	
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	Fluid Controls Pvt. Ltd.	Sophie Y. Moochhala/Mayur Rajput J.V.PATEL, I.T.I CMPD, B.MADHUKAR MARG, ELPHINSTONE ROADSTN.(WR), MUMBAI Phone- (022) 43338000 Pincode : 400013 Email : sales@fluidcontrols.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	Fluid Controls Pvt. Ltd.	Sophie Y. Moochhala/Mayur Rajput J.V.PATEL, I.T.I CMPD, B.MADHUKAR MARG, ELPHINSTONE ROADSTN.(WR), MUMBAI Phone- (022) 43338000 Pincode : 400013 Email : sales@fluidcontrols.com	
INSTRUMENT FITTINGS	Electronics	fittings	instruments	Fluid Controls Pvt. Ltd.	Sophie Y. Moochhala/Mayur Rajput J.V.PATEL, I.T.I CMPD, B.MADHUKAR MARG, ELPHINSTONE ROADSTN.(WR), MUMBAI Phone- (022) 43338000 Pincode : 400013 Email : sales@fluidcontrols.com	
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	Perfect Instrumentation Control (India) Pvt. Ltd.	MD Hussain Shaikh/Shahanawaz Khan Gala No. 168, Loheki Chwal,216/ 218, Maulana Azad Rd. Nagpada Junction Mumbai Phone- 91-9324383121 Pincode : 400008 Email : shahanawaz.khan@perfectinstrumentation.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	HP VALVES & FITTINGS INDIA PVT. LTD.	S. Harichandran/P.S. Pandi B-11, Mugappair Industrial Estate, CHENNAI Phone- 044 26252537 Pincode : 600037 Email : sales@hpvalvesindia.com	
INSTRUMENT FITTINGS	Electronics	fittings	instruments	HP VALVES & FITTINGS INDIA PVT. LTD		
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	HP VALVES & FITTINGS INDIA PVT. LTD.	S. Harichandran/P.S. Pandi B-11, Mugappair Industrial Estate, CHENNAI Phone- 044 26252537 Pincode : 600037 Email : sales@hpvalvesindia.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	Perfect Instrumentation Control (India) Pvt. Ltd		
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	Comfit & Valve Pvt. Ltd.	Mr. Jeetu Jain/Mr. Vinay Sosa Survey No. 23/1, Part 2, Ahmedabad-Mehsana Highway Laxmipura, Nandasan Phone- 02764-267036/37 Pincode : 382705 Email : marketing@com-fit.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
INSTRUMENT FITTINGS	Electronics	fittings	instruments	Arya Crafts & Engineering Pvt. Ltd	Mr. Shridhar G Hegde, P 46, Eighth Avenue, Anjur Village, Main Gate Road, Mahindra World City, Chengalpattu Chennai Phone- 044 3747 4444 Pincode : 603004 Email : shegde@armstronginternational.in	
INSTRUMENT FITTINGS	Electronics	Fittings	instrument	AURA INCORPORATED	NIRAJ SHARAN/SUJIT KUMAR W-167A, GREATER KAILASH-II NEW DELHI Phone- 9810182430 Pincode : 110048 Email : niraj@aurainc.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	AURA INCORPORATED	NIRAJ SHARAN/SUJIT KUMAR W-167A, GREATER KAILASH-II NEW DELHI Phone- 9810182430 Pincode : 110048 Email : niraj@aurainc.com	
INSTRUMENT FITTINGS	Electronics	fittings	instruments	AURA INCORPORATED	NIRAJ SHARAN/SUJIT KUMAR W-167A, GREATER KAILASH-II NEW DELHI Phone- 9810182430 Pincode : 110048 Email : niraj@aurainc.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	Astec Valves & Fittings Pvt. Ltd		
INSTRUMENT FITTINGS	Electronics	fittings	instruments	Astec Valves & Fittings Pvt. Ltd		
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	Arya Crafts & Engineering Pvt. Ltd.	Mr.Sanjay Brahman/Mr.Shyam Vazirani 102, Vora Industrial Estate No.4 Navghar, Vasai Road (E) Dist.Thane, Mumbai Phone- +91-250-2392246 Pincode : 401210 Email : arya@aryaengg.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	Arya Crafts & Engineering Pvt. Ltd	Mr. Shridhar G Hegde, P 46, Eighth Avenue, Anjur Village, Main Gate Road, Mahindra World City, Chengalpattu Chennai Phone- 044 3747 4444 Pincode : 603004 Email : shegde@armstronginternational.in	
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	PANAM ENGINEERS	Mr. Santosh Shukla 203, Jaisingh Business, Parsiwada, Sahar road, Andheri(East), Mumbai, Phone- 9892179529, Pincode : 400099, Email : santosh@panamengineers.com,	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	Panam Engineers		
INSTRUMENT FITTINGS	Electronics	fittings	instruments	Panam Engineers		
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	VIKAS INDUSTRIAL PRODUCTS	S.R.SINGH/NAVEEN SINGH B - 2, SECTOR - 6, NOIDA Phone- +91-9810122070 Pincode : 201301 Email : naveensingh@vsnl.com	
INSTRUMENT FITTINGS	Mechanical	Fittings	Instrument	VIKAS INDUSTRIAL PRODUCTS	S.R.SINGH/NAVEEN SINGH B - 2, SECTOR - 6, NOIDA Phone- +91-9810122070 Pincode : 201301 Email : naveensingh@vsnl.com	
INSTRUMENT FITTINGS	Electronics	fittings	instruments	VIKAS INDUSTRIAL PRODUCTS	S.R.SINGH/NAVEEN SINGH B - 2, SECTOR - 6, NOIDA Phone- +91-9810122070 Pincode : 201301 Email : naveensingh@vsnl.com	
INSTRUMENT FITTINGS	Electronics	Fittings	instrment	FLUIDFIT ENGINEERS PVT. LTD.	Mr. Abbas Bhola Potia Building No. 2, Office No. 3,292, Bellasis Road, Mumbai Central (East) Mumbai Phone- 9920044113 Pincode : 400008 Email : ab@fluidfitengg.com	
INSTRUMENTS PIPE FITTINGS	Electronics	Fittings	pipe	AURA INCORPORATED	NIRAJ SHARAN/SUJIT KUMAR W-167A, GREATER KAILASH-II NEW DELHI Phone- 9810182430 Pincode : 110048 Email : niraj@aurainc.com	
INSTRUMENTS PIPE FITTINGS	Electronics	Fittings	pipe	Fluid Controls Pvt. Ltd.	Sophie Y. Moochhala/Mayur Rajput J.V.PATEL, I.T.I CMPD, B.MADHUKAR MARG, ELPHINSTONE ROADSTN.(WR), MUMBAI Phone- (022) 43338000 Pincode : 400013 Email : sales@fluidcontrols.com	
INSTRUMENTS PIPE FITTINGS	Electronics	Fittings	pipe	PRECISION ENGINEERING INDUSTRIES	K. SITARAM/ K. SRINIVAS 7,SIDHAPURA INDUSTRIAL ESTATE S.V. ROAD,GOREGAON(W) MUMBAI Phone- 022 42631700 Pincode : 400 062 Email : peiks@vsnl.com	
INSTRUMENTS PIPE FITTINGS	Electronics	Fittings	pipe	VIKAS INDUSTRIAL PRODUCTS	S.R.SINGH/NAVEEN SINGH B - 2, SECTOR - 6, NOIDA Phone- +91-9810122070 Pincode : 201301 Email : naveensingh@vsnl.com	
INSTRUMENTS TUBE FITTINGS	Electronics	Fittings	Tube	PRECISION ENGINEERING INDUSTRIES	K. SITARAM/ K. SRINIVAS 7,SIDHAPURA INDUSTRIAL ESTATE S.V. ROAD,GOREGAON(W) MUMBAI Phone- 022 42631700 Pincode : 400 062 Email : peiks@vsnl.com	
INSTRUMENTS TUBE FITTINGS	Electronics	Fittings	Tube	VIKAS INDUSTRIAL PRODUCTS	S.R.SINGH/NAVEEN SINGH B - 2, SECTOR - 6, NOIDA Phone- +91-9810122070 Pincode : 201301 Email : naveensingh@vsnl.com	
INSTRUMENTS TUBE FITTINGS	Electronics	Fittings	Tube	Fluid Controls Pvt. Ltd.	Sophie Y. Moochhala/Mayur Rajput J.V.PATEL, I.T.I CMPD, B.MADHUKAR MARG, ELPHINSTONE ROADSTN.(WR), MUMBAI Phone- (022) 43338000 Pincode : 400013 Email : sales@fluidcontrols.com	
INSTRUMENTS TUBE FITTINGS	Electronics	Fittings	Tube	AURA INCORPORATED	NIRAJ SHARAN/SUJIT KUMAR W-167A, GREATER KAILASH-II NEW DELHI Phone- 9810182430 Pincode : 110048 Email : niraj@aurainc.com	
INSULATING MATS	Electrical			Vardhman Hoses (P) Ltd.	Mr. Mayank Jain/Mr. Abhishek Mallick E-1249, Phase-I, RIICO Indl. Area, Bhiwadi Phone- 9873005253 Pincode : 301 019 Email : info@rubberindia.in	
INSULATING MATS	Electrical			RMG POLYVINYL INDIA LIMITED	MR. UMESH AGGARWAL/MR. HARISH K. BUTIAN 302 ELITE HOUSE36 COMMUNITY CENTRE KAILASH COLONYEXTN. ZAMRUPUR DELHI Phone- 0120-3118802 Pincode : 110048 Email : info@safevolt.in	
INSULATING MATS	Electrical			V.R. ENTERPRISES	F-5, SITE NO-1, BULANDSHAHR ROAD INDUSTRIAL AREA, GHAZIABAD Phone- 9011037200 Pincode : Email : rohitgupta123in@yahoo.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
INSULATING MATS	Electrical			MARVEL VINYL LTD	Mr. Saksham Chawla G-73, Connaught Circus New Delhi Phone- 011-45306666 Pincod : 110001 Email : saksham.chawla@marvelvinyls.com	
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	UP TWIGA		
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	PARAMONT		
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	AEROCELL		
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	K-FLEX		
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	LLOYD INSULATIONS (INDIA) LTD.	NP PURI 2, INDUSTRIAL AREA, KALKAJI, PO BOX- 4321, NEW DELHI Phone- 9313217704 Pincod : 110019 Email : ak.luthra@lloydinsulation.com	
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	BEARDSHELL		
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	SUPREME		
INSULATION MATERIAL (Fibreglass / EPS/ PUF / Nitrile /EPDM)	Mechanical	Insulation	(Fibreglass / EPS/ PUF / Nitrile /EPDM)	ARMAFLEX		
JUNCTION BOX	Electronics	Box	Junction	SUCHITRA INDUSTRIES		
JUNCTION BOX	Electronics	Box	Junction	SUCHITRA INDUSTRIES	NO-2,OPP-27 AECS LAYOUT 2ND STG REJAMAHALVILAS EXTN 2ND STG BANGALORE Phone- Pincod : Email : suchitra.industriesblr@gmail.com	
JUNCTION BOX	Electronics	Box	Junction	FLEXPRO ELECTRICALS PVT. LTD	Mr. Dineshbhai Zaveri C-1/ 27&37, GIDC, Kabilpore, Navsari Phone- 02637-265140,265003 Pincod : 396424 Email : flexpro@flexproltd.com	
JUNCTION BOX	Electronics	Box	Junction	FLEXPRO ELECTRICALS PVT. LTD.	Mr. Dineshbhai Zaveri C-1/ 27&37, GIDC, Kabilpore, Navsari Phone- 02637-265140,265003 Pincod : 396424 Email : flexpro@flexproltd.com	Metal type junction box only
JUNCTION BOX	Electronics	Box	Junction	AJMERA INDUSTRIAL & ENGINEERING WORKS	JIGNESH MAHENDRA AJMERA DENA BANK BLDG.,SHREE NAGESH INDL. ESTATE,STATION ROAD, MUMBAI Phone- 022 67973578 Pincod : 400 088 Email : ajmera@ajmera.net, jimajmera@yahoo.com	
JUNCTION BOX	Electronics	Box	Junction	K.S.INSTRUMENTS PVT.LTD		
JUNCTION BOX	Electronics	Box	Junction	K.S.INSTRUMENTS PVT.LTD.	S Raghavan No. 72, 3rd Main, 1st Stage Industrial Suburb, Yeshwanthpur Bangalore Phone- 9880385770 Pincod : 560022 Email : sales1@ksinstruments.net	
JUNCTION BOX	Electronics	Box	Junction	Shrenik & Company,	Mr. Mitesh Shah/Mr. Pulin Shah 39 A/3 ,Panchratna Industrial Estate, Sarkhej-Bavla Road Ahmedabad Phone- 9825024921 Pincod : 382213 Email : sales@pustron.com, pulin@sumip.com	
JUNCTION BOX	Electronics	Box	Junction	AJMERA INDUSTRIAL & ENGINEERING WORKS	JIGNESH MAHENDRA AJMERA DENA BANK BLDG.,SHREE NAGESH INDL. ESTATE,STATION ROAD, MUMBAI Phone- 022 67973578 Pincod : 400 088 Email : ajmera@ajmera.net, jimajmera@yahoo.com	
JUNCTION BOX	Electronics	Box	Junction	Shrenik & Company	Mr. Mitesh Shah/Mr. Pulin Shah 39 A/3 ,Panchratna Industrial Estate, Sarkhej-Bavla Road Ahmedabad Phone- 9825024921 Pincod : 382213 Email : sales@pustron.com, pulin@sumip.com	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	Pune Techrol Pvt. Ltd.	N.P.Khatan/Sudhakar Badiger S-18, MIDC Bhosari, Pune Phone- 9850560042 Pincod : 411 026 Email : ho@punetechrol.com	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	TECHNOMATIC		
LEVEL GAUGE	Electronics	Instrument	Gauge Level	SIGMA INSTRUMENTS CO.	Gopal Kannan/R Gopinath 201, ANANDRAJ INDUSTRIAL ESTATE, OFF.LBS MARG, SONAPUR LANE, BHANDUP (W) MUMBAI Phone- +919821038162 Pincod : 400078 Email : sales@sigmainstruments.co.in	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	TELACO		
LEVEL GAUGE	Electronics	Instrument	Gauge Level	BLISS ANAND PVT. LTD.	Mr. Vikas Anand/ Mr.RGRajan 92B & 93 B , IMT MANESAR Gurgaon Phone- 0124-4366000 TO 9 Pincod : 122001 Email : sales@blissanand.com	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincod : 305002 Email : toshniwalprocess@gmail.com	
LEVEL GAUGE	Electronics	INSTRUMENTS	Gauge Level	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincod : 305002 Email : toshniwalprocess@gmail.com	MAKE:NIVO CONTROLS
LEVEL GAUGE	Electronics	INSTRUMENTS	Gauge Level	SIGMA INSTRUMENTS CO.	Gopal Kannan/R Gopinath 201, ANANDRAJ INDUSTRIAL ESTATE, OFF.LBS MARG, SONAPUR LANE, BHANDUP (W) MUMBAI Phone- +919821038162 Pincod : 400078 Email : sales@sigmainstruments.co.in	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	LEVCON INSTRUMENTS PVT. LTD.	Mr Shayak Gupta/Badal Jana Rajkamal', 7th floor, 13, Camac Street KOLKATA Phone- 0 33 2283 2766 Pincod : 700017 Email : b_jana@levcongroup.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
LEVEL GAUGE	Electronics	Instrument	Gauge Level	AUTOMAT MUMBAI		
LEVEL GAUGE	Electronics	Instrument	Gauge Level	D.K. INSTRUMENTS PVT.LTD.	N.SIKDAR/ SUMIT SIKDAR 76/2,SELIMPUR RD DHAKURIA Kolkata Phone- 033-2415-1310. Pincode : 700031 Email : dkinst@vsnl.net	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	CHEMTROLS	AMAR HILL, SAKI VIHAR ROAD, POWAI, MUMBAI Phone- 022-28575089 Pincode : 400021 Email : manikandan@chemtrols.co.in	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	GENERAL INSTRUMENTS CONSORTIUM	Mr. Amarendra Kulkarni 194/195, Gopi Tank Road, Off. Pandurang Naik Marg, Mahim Mumbai Phone- 9323195251 Pincode : 400016 Email : amarendra@general-gauges.com	
LEVEL GAUGE	Electronics	Instrument	Gauge Level	Flow Star Engineering Pvt. Ltd.,	MR. KHALID AKHTAR/MR. TAPAN KUMAR JANA Plot No-7 F/2, Northern India Industrial 20/3, Mathura Road FARIDABAD Phone- 9818176380 Pincode : 121005 Email : khalid@flowstar.co.in	
LEVEL GAUGE	Electronics	INSTRUMENTS	Gauge Level	BLISS ANAND PVT. LTD.	Mr. Vikas Anand/ Mr.RGRajan 92B & 93 B , IMT MANESAR Gurgaon Phone- 0124-4366000 TO 9 Pincode : 122001 Email : sales@blissanand.com	
LEVEL SWITCH	Electronics	Instrument	Switch level	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
LEVEL SWITCH	Electronics	Instrument	Switch level	V. AUTOMAT & INTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
LEVEL SWITCH	Electronics	Instrument	Switch level	RAMAN INST		
LEVEL SWITCH	Electronics	Instrument	Switch level	SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	
LEVEL SWITCH	Electronics	Instrument	Switch level	NIVO CONTROLS		
LEVEL SWITCH	Electronics	Instrument	Switch level	SOR INC.	LARRY DEGARMO/Avdshesh Chandra, 14685 W. 105TH STREET LENEXA Phone- 09810905139, Pincode : 66215 Email : Ldegarmo@sorinc.com, avdshesh@sherman-india.com,	
LEVEL SWITCH	Electronics	Instrument	Switch level	WAREE INST		
LEVEL SWITCH	Electronics	Instrument	Switch level	SIGMA INSTRUMENTS CO.	Gopal Kannan/R Gopinath 201, ANANDRAJ INDUSTRIAL ESTATE, OFF.LBS MARG, SONAPUR LANE, BHANDUP (W) MUMBAI Phone- +919821038162 Pincode : 400078 Email : sales@sigmainstruments.co.in	
LEVEL SWITCH	Electronics	Instrument	Switch level	DK INSTRUMENT		
LEVEL SWITCH	Electronics	Instrument	Switch level	SAPCON INSTRUMENT		
LEVEL SWITCH	Electronics	Instrument	Switch level	CHEMTROLS	AMAR HILL, SAKI VIHAR ROAD, POWAI, MUMBAI Phone- 022-28575089 Pincode : 400021 Email : manikandan@chemtrols.co.in	
LEVEL SWITCH	Electronics	Instrument	Switch level	GIC		
LEVEL SWITCH	Electronics	Instrument	Switch level	BLISS ANAND PVT. LTD.	Mr. Vikas Anand/ Mr.RGRajan 92B & 93 B , IMT MANESAR Gurgaon Phone- 0124-4366000 TO 9 Pincode : 122001 Email : sales@blissanand.com	
LEVEL SWITCH	Electronics	Instrument	Switch level	LEVCON INSTRUMENTS PVT. LTD.	Mr Shayak Gupta/Badal Jana Rajkamal', 7th floor, 13, Camac Street KOLKATA Phone- 0 33 2283 2766 Pincode : 700017 Email : b_jana@levcongroup.com	
LEVEL SWITCH	Electronics	Instrument	Switch level	Pune Techrol Pvt. Ltd.	N.P.Khatan/Sudhakar Badiger S-18, MIDC Bhosari, Pune Phone- 9850560042 Pincode : 411 026 Email : ho@punetechtrol.com	
LEVEL SWITCH	Electronics	Instrument	Switch level	TRAC		
LEVEL SWITCH	Electronics	Instrument	Switch level	FLOW TECH		
LEVEL SWITCH	Electronics	Instrument	Switch level	SIEMENS		
LEVEL SWITCH	Electronics	Instrument	Switch level	Flow Star Engineering Pvt. Ltd.,	MR. KHALID AKHTAR/MR. TAPAN KUMAR JANA Plot No-7 F/2, Northern India Industrial 20/3, Mathura Road FARIDABAD Phone- 9818176380 Pincode : 121005 Email : khalid@flowstar.co.in	
LEVEL SWITCH	Electronics	Instrument	Switch level	HI TECH		
LEVEL SWITCH-CAPACITANCE TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	V. AUTOMAT & INTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
LEVEL SWITCH-CAPACITANCE TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	Pune Techrol Pvt. Ltd.	N.P.Khatan/Sudhakar Badiger S-18, MIDC Bhosari, Pune Phone- 9850560042 Pincode : 411 026 Email : ho@punetechtrol.com	
LEVEL SWITCH-CAPACITANCE TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	LEVCON INSTRUMENTS PVT. LTD.	Mr Shayak Gupta/Badal Jana Rajkamal', 7th floor, 13, Camac Street KOLKATA Phone- 0 33 2283 2766 Pincode : 700017 Email : b_jana@levcongroup.com	
LEVEL SWITCH-CAPACITANCE TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	SIGMA INSTRUMENTS CO.	Gopal Kannan/R Gopinath 201, ANANDRAJ INDUSTRIAL ESTATE, OFF.LBS MARG, SONAPUR LANE, BHANDUP (W) MUMBAI Phone- +919821038162 Pincode : 400078 Email : sales@sigmainstruments.co.in	



Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
LEVEL SWITCH-CAPACITANCE TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
LEVEL SWITCH-CAPACITANCE TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	Flow Star Engineering Pvt. Ltd.,	MR. KHALID AKHTAR/MR. TAPAN KUMAR JANA Plot No-7 F/2, Northern India Industrial 20/3, Mathura Road FARIDABAD Phone- 9818176380 Pincode : 121005 Email : khalid@flowstar.co.in	
LEVEL SWITCH-CAPACITANCE TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone- 9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	SIGMA INSTRUMENTS CO.	Gopal Kannan/R Gopinath 201, ANANDRAJ INDUSTRIAL ESTATE, OFF.LBS MARG, SONAPUR LANE, BHANDUP (W) MUMBAI Phone- +919821038162 Pincode : 400078 Email : sales@sigmainstruments.co.in	
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	SOR INC.	LARRY DEGARMO/Avdshesh Chandra, 14685 W. 105TH STREET LENEXA Phone- 09810905139, Pincode : 66215 Email : Ldegarmo@sorinc.com, avdshesh@sherman-india.com,	
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	Sapcon Instrument Pvt Ltd.	131, PALSNIKAR COLONY Contact Person- Mr. Ashwin (9826080207) INDORE Phone- +91-731-4085751, Pincode : 452004 Email : sales@sapconinstruments.com	
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	LEVCON INSTRUMENTS PVT. LTD.	Mr Shayak Gupta/Badal Jana Rajkamal', 7th floor, 13, Camac Street KOLKATA Phone- 0 33 2283 2766 Pincode : 700017 Email : b_jana@levcongroup.com	
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	RAMAN INSTRUMENTS PVT.LTD.	Mr. N R Shenoy/Mr G B Vijh 8, First Floor.Plot : 160A Bait-Ush-Sharaf, 29th Road,Bandra(W) MUMBAI Phone- 09892331381 Pincode : 400050 Email : ramanbpl@vsnl.com	Vendor shall source import contents of Level Switch (Conductivity Type) from Mobrey Measurement, an operating unit of Morbey Ltd., Slough, Berkshire, United Kingdom.
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	V. AUTOMAT & INSTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	BLISS ANAND PVT. LTD.	Mr. Vikas Anand/ Mr.RGRajan 92B & 93 B , IMT MANESAR Gurgaon Phone- 0124-4366000 TO 9 Pincode : 122001 Email : sales@blissanand.com	
LEVEL SWITCH-CONDUCTIVITY TYPE	Electronics	INSTRUMENTS	Switch level Capacitance	HI-TECH SYSTEMS & SERVICES LTD.	Mr. Vikash Agrawal/Mr. Tarun Debnath 119, PARK STREET , KOLKATA Phone- 033-22290045 Pincode : 700016 Email : sandeep@hitech.in	Vendor shall source import contents of Level Switch (Conductivity Type) from Levelstate Systems Ltd., United Kingdom.
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	V. AUTOMAT & INSTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	SOR INC.	LARRY DEGARMO/Avdshesh Chandra, 14685 W. 105TH STREET LENEXA Phone- 09810905139, Pincode : 66215 Email : Ldegarmo@sorinc.com, avdshesh@sherman-india.com,	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	Pune Techrol Pvt. Ltd.	N.P.Khatan/Sudhakar Badiger S-18, MIDC Bhosari, Pune Phone- 9850560042 Pincode : 411 026 Email : ho@punetechrol.com	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	GENERAL INSTRUMENTS CONSORTIUM	Mr. Amarendra Kulkarni 194/195, Gopi Tank Road, Off. Pandurang Naik Marg, Mahim Mumbai Phone- 9323195251 Pincode : 400016 Email : amarendra@general-gauges.com	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	SIGMA INSTRUMENTS CO.	Gopal Kannan/R Gopinath 201, ANANDRAJ INDUSTRIAL ESTATE, OFF.LBS MARG, SONAPUR LANE, BHANDUP (W) MUMBAI Phone- +919821038162 Pincode : 400078 Email : sales@sigmainstruments.co.in	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	D.K. INSTRUMENTS PVT.LTD.	N.SIKDAR/ SUMIT SIKDAR 76/2,SELIMPUR RD DHAKURIA Kolkata Phone-033-2415-1310. Pincode : 700031 Email : dkinst@vsnl.net	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone- 9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	LEVCON INSTRUMENTS PVT. LTD.	Mr Shayak Gupta/Badal Jana Rajkamal', 7th floor, 13, Camac Street KOLKATA Phone- 0 33 2283 2766 Pincode : 700017 Email : b_jana@levcongroup.com	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	
LEVEL SWITCH-FLOAT TYPE	Electronics	INSTRUMENTS	Switch level Float	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
LEVEL TRANSMITTER	Electronics	Transmitter	LEVEL	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
LIMIT SWITCHES	Electronics	Switch	Limit	SPEED-O-CONTROL		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
LIMIT SWITCHES	Electronics	Switch	Limit	ELECTROMAG		
LOCAL CONTROL PANELS	Electrical	Panel	Local Control	C and S ELECTRIC LTD.	222, OKHLA INDUSTRIAL ESTATE, PHASE-II, NEW DELHI Phone- 9871799447 Pincode : 110020 Email : panel.marketing@cselectric.co.in	
LOCAL CONTROL PANELS	Electrical	Panel	Local Control	INDUSTRIAL CONTROLS & APPLIANCES PVT LTD	47, CHAKALA ROAD, ANDHERI(EAST), MUMBAI Phone- 28344494,28221532 Pincode : 400099 Email : indconapp@vsnl.com	
LOCAL CONTROL PANELS	Electrical	Panel	Local Control	PYROTECH ELECTRONICS PVT. LTD.	Unit-IV, A-193, M.I.A. Dadri, UDAIPUR Phone- 2492122,31,34 Pincode : 313003 Email : pyrotech@pyrotechindia.com	
LOCAL CONTROL PANELS	Electrical	Panel	Local Control	PROCON INSTRUMENTATION PVT. LTD.	1H, SHAKTI TOWERS, 766, ANNA SALAI, CHENNAI Phone- 28266041,2824142 Pincode : 600022 Email : procond1@nda.vsnl.net.in	
MAGNETIC FLOW METER	Electronics	Transmitter	FLOW	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
MCB	Electronics	Breaker	MCB	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	WILO MATHER & PLATT PUMPS PVT. LTD.	MUMBAI-PUNE ROAD, CHINCHWAD, PUNE Phone- 27442100/1/2/3/4 Pincode : 411019 Email : vmattoo@pun.matherplatt.co.in	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	BHARAT PUMPS & COMPRESSORS LTD	NAINI, ALLAHABAD (UP) ALLAHABAD Phone- 0532 2697412-15 Pincode : 211 010 Email : siraj.ahmad@bharatpumps.co.in	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	MAXFLOW PUMPS INDIA PVT. LTD.	Mr. Chirag Agarwal PLOT NO. 306 307, Sector 7 II, IMT MANESAR, GURUGRAM Phone- 0124-4525000 Pincode : 122050 Email : sales@maxflowpumps.com; rnt@maxflowpumps.com	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	V-Flo Pumps & Systems Co. Ltd.,	5th Floor East, Jiahuiyuan, Huao Center 31 Zizhuyuan Rd., Beijing Phone- 0086-10-51906628 Pincode : 100089 Email : sales@v-flo.com	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	SINTECH PRECISION PRODUCT LTD.	Ms. Akansha Sharma C-189 & 190, B.S. ROAD INDUSTRIAL AREA SITE NO.1, GHAZIABAD Phone- 0120-4176000 Pincode : 201001 Email : sahil@sintechpumps.com	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	FLOWMORE LTD.	443, UDYOG VIHAR, PH-III GURGAON-122016 HARYANA Phone- 01243010892 Pincode : 122016 Email : ps@flowmoregroup.com; corporate@flowmoregroup.com	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	WPIL LIMITED	Trinity Plaza, 84/1A, Topsia Road (South), Kolkata-700046 KOLKATA Phone- Pincode : 700046 Email : bs@wpil.co.in; nrosales@wpil.co.in	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	VARAT PUMP AND MACHINERY PVT. LTD.	Mr. Kishore Kumar Bose 20, Netaji Subhas Road Kolkata Phone- 9230504569 Pincode : 700001 Email : sinha3227@gmail.com	
MISC. PUMPS(HORZ.) TYPE-I (FLOW<300 CMH)	Mechanical	Pump	Centrifugal horizontal	KIRLOSKAR BROTHERS LTD.	KIRLOSKAR PRESS COMPOUND, UDYOG BHAWAN,TILAK ROAD, PUNE Phone- 2447550,240672 Pincode : 411002 Email : kblin@kbl.co.in; gosain@del.kbl.co.in	
MISC. PUMPS(HORZ.) TYPE-II(FLOW>300 CMH)	Mechanical	Pump	Centrifugal horizontal	V-Flo Pumps & Systems Co. Ltd.,	5th Floor East, Jiahuiyuan, Huao Center 31 Zizhuyuan Rd., Beijing Phone- 0086-10-51906628 Pincode : 100089 Email : sales@v-flo.com	
MISC. PUMPS(HORZ.) TYPE-II(FLOW>300 CMH)	Mechanical	Pump	Centrifugal horizontal	FLOWMORE LTD.	443, UDYOG VIHAR, PH-III GURGAON-122016 HARYANA Phone- 01243010892 Pincode : 122016 Email : ps@flowmoregroup.com; corporate@flowmoregroup.com	
MISC. PUMPS(HORZ.) TYPE-II(FLOW>300 CMH)	Mechanical	Pump	Centrifugal horizontal	VARAT PUMP AND MACHINERY PVT. LTD.	Mr. Kishore Kumar Bose 20, Netaji Subhas Road Kolkata Phone- 9230504569 Pincode : 700001 Email : sinha3227@gmail.com	Flow upto 700 Cub M/Hr
MISC. PUMPS(HORZ.) TYPE-II(FLOW>300 CMH)	Mechanical	Pump	Centrifugal horizontal	BHARAT PUMPS & COMPRESSORS LTD	NAINI, ALLAHABAD (UP) ALLAHABAD Phone- 0532 2697412-15 Pincode : 211 010 Email : siraj.ahmad@bharatpumps.co.in	
MISC. PUMPS(HORZ.) TYPE-II(FLOW>300 CMH)	Mechanical	Pump	Centrifugal horizontal	WPIL LIMITED	Trinity Plaza, 84/1A, Topsia Road (South), Kolkata-700046 KOLKATA Phone- Pincode : 700046 Email : bs@wpil.co.in; nrosales@wpil.co.in	
MISC. PUMPS(HORZ.) TYPE-II(FLOW>300 CMH)	Mechanical	Pump	Centrifugal horizontal	SINTECH PRECISION PRODUCT LTD.	Ms. Akansha Sharma C-189 & 190, B.S. ROAD INDUSTRIAL AREA SITE NO.1, GHAZIABAD Phone- 0120-4176000 Pincode : 201001 Email : sahil@sintechpumps.com	Flow upto 1600 Cub. M/Hr
MISC. PUMPS(HORZ.) TYPE-II(FLOW>300 CMH)	Mechanical	Pump	Centrifugal horizontal	MAXFLOW PUMPS INDIA PVT. LTD.	Mr. Chirag Agarwal PLOT NO. 306 307, Sector 7 II, IMT MANESAR, GURUGRAM Phone- 0124-4525000 Pincode : 122050 Email : sales@maxflowpumps.com; rnt@maxflowpumps.com	Upto 1600 CuM/Hr
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	SINTECH PRECISION PRODUCT LTD.	Ms. Akansha Sharma C-189 & 190, B.S. ROAD INDUSTRIAL AREA SITE NO.1, GHAZIABAD Phone- 0120-4176000 Pincode : 201001 Email : sahil@sintechpumps.com	Flow upto 1600 Cub. M/Hr
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	FLOWMORE LTD.	443, UDYOG VIHAR, PH-III GURGAON-122016 HARYANA Phone- 01243010892 Pincode : 122016 Email : ps@flowmoregroup.com; corporate@flowmoregroup.com	
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	V-Flo Pumps & Systems Co. Ltd.,	5th Floor East, Jiahuiyuan, Huao Center 31 Zizhuyuan Rd., Beijing Phone- 0086-10-51906628 Pincode : 100089 Email : sales@v-flo.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	KIRLOSKAR BROTHERS LTD.	KIRLOSKAR PRESS COMPOUND, UDYOG BHAWAN,TILAK ROAD, PUNE Phone- 2447550,240672 Pincode : 411002 Email : kbilin@kbl.co.in; gosain@del.kbl.co.in	
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal Vertical	VARAT PUMP AND MACHINERY PVT. LTD.	Mr. Kishore Kumar Bose 20, Netaji Subhas Road Kolkata Phone- 9230504569 Pincode : 700001 Email : sinha3227@gmail.com	Flow upto 700 Cub M/Hr
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	MAXFLOW PUMPS INDIA PVT. LTD.	Mr. Chirag Agarwal PLOT NO. 306 307, Sector 7 II, IMT MANESAR, GURUGRAM Phone- 0124-4525000 Pincode : 122050 Email : sales@maxflowpumps.com; rnt@maxflowpumps.com	Upto 1600 CuM/Hr
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	WPIL LIMITED	Trinity Plaza, 84/1A, Topsia Road (South), Kolkata-700046 KOLKATA Phone- Pincode : 700046 Email : bs@wpil.co.in; nrosales@wpil.co.in	
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	WILO MATHER & PLATT PUMPS PVT. LTD.	MUMBAI-PUNE ROAD, CHINCHWAD, PUNE Phone- 27442100/1/2/3/4 Pincode : 411019 Email : vmattoo@pun.matherplatt.co.in	
MISC.PUMPS (HORIZONTAL)	Mechanical	Pump	Centrifugal horizontal	BHARAT PUMPS & COMPRESSORS LTD	NAINI, ALLAHABAD (UP) ALLAHABAD Phone- 0532 2697412-15 Pincode : 211 010 Email : siraj.ahmad@bharatpumps.co.in	
MISC.PUMPS (VERTICAL)	Mechanical	Pump	Centrifugal Vertical	WILO MATHER & PLATT PUMPS PVT. LTD.	MUMBAI-PUNE ROAD, CHINCHWAD, PUNE Phone- 27442100/1/2/3/4 Pincode : 411019 Email : vmattoo@pun.matherplatt.co.in	
MISC.PUMPS (VERTICAL)	Mechanical	Pump	Centrifugal Vertical	FLOWMORE LTD.	443, UDYOG VIHAR, PH-III GURGAON-122016 HARYANA Phone- 01243010892 Pincode : 122016 Email : ps@flowmoregroup.com; corporate@flowmoregroup.com	NO LIMIT SINCE 24.05.2012
MISC.PUMPS (VERTICAL)	Mechanical	Pump	Centrifugal Vertical	BHARAT PUMPS & COMPRESSORS LTD	NAINI, ALLAHABAD (UP) ALLAHABAD Phone- 0532 2697412-15 Pincode : 211 010 Email : siraj.ahmad@bharatpumps.co.in	
VALVE	Mechanical	Valve	Motorized	FLUID LINE		
VALVE	Mechanical	Valve	Motorized	KBL		
VALVE	Mechanical	Valve	Motorized	ANERGY		
VALVE	Mechanical	Valve	Motorized	BELIMO		
VALVE	Mechanical	Valve	Motorized	BANKIM & COMPANY		
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	H.SARKER and COMPANY	13, CROOKED LANE, HOWRAH Phone- 9163692218 Pincode : 711113 Email : hsblt09@gmail.com ; hs_newdelhi@yahoo.comhsblt09@gmail.com	
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	Honeywell Automation India Limited	Mr. Ritwij Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : rajesh.chaudhary@honeywell.com	
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	A.V. VALVES LTD	Mr. Anil Sharma 16, INDUSTRIAL ESTATE NANHAI AGRA Phone- 05622281202 Pincode : 282 006 Email : info@avvalves.com,avvalves@sancharnet.in	
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	ADVANCE VALVES PVT. LTD.	B-33, SECTOR-2, NOIDA Phone- + 91 -120 - 4796900 Pincode : 201301 Email : m.shahnawaz@advancevalves.com	
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	SURYA VALVES AND INSTRUMENT MANUFACTURING		
VALVE	Mechanical	Valve	Motorized	JOHNSON		
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
VALVE	Mechanical	Valve	Motorized	GM DAULI & SONS		
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	VENUS PUMPS AND ENGINEERING WORKS	40, STRAND ROAD, 1st FLOOR, KOLKATA Phone- 033-26531546 Pincode : 700001 Email : venus.rajesh68@gmail.com	
MOTORIZED BUTTERFLY VALVE	Mechanical	Valve	Butterfly-Motorized	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	
Non Mettalic Pumps				Anticorrosive Equipment Pvt Ltd (ANTICO)	Office: 15 Hind Service Inds, Off VS Marg, Shivaji Park, Mumbai 400028 MH India Ph: +91 22 24453501/24468340	
Non Mettalic Pumps				Engineers Combine	Shop No 215, Avon Arcade, 2nd Floor, D J Road, Vile Parle West, Mumbai - 400056,	
Non Mettalic Pumps				Leak-Proof Pumps (I) Pvt. Ltd.	1 - G, Laxmi Industrial Estate, New Link Road, Andheri (West), Mumbai 400 053, INDIA. Fax: +91-22- 2632 0866 Phone: +91-22-2636 1737, 2639 0337/38 E-mail: rppl@rajediapumps.com sales@rajediapumps.com	
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	H.SARKER and COMPANY	13, CROOKED LANE, HOWRAH Phone- 9163692218 Pincode : 711113 Email : hsblt09@gmail.com ; hs_newdelhi@yahoo.comhsblt09@gmail.com	
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	VENUS PUMPS AND ENGINEERING WORKS	40, STRAND ROAD, 1st FLOOR, KOLKATA Phone- 033-26531546 Pincode : 700001 Email : venus.rajesh68@gmail.com	
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	KBL		
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	SHIVADURGA		
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	FLUID LINE		
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	GM DAULI & SONS		
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	HI -TECH		
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	BANKIM & COMPANY		
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	A.V. VALVES LTD	Mr. Anil Sharma 16, INDUSTRIAL ESTATE NANHAI AGRA Phone- 05622281202 Pincode : 282 006 Email : info@avvalves.com,avvalves@sancharnet.in	
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	SURYA VALVES AND INSTRUMENT MANUFACTURING		
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	
NON RETURN VALVE(CI)	Mechanical	Valve	NRV-CI	CRESCENT VALVES MFG CO. PVT. LTD	BLUE HAVEN 15 FAROOQ S UMAR STREET MUMBAI Phone- 02223014026 Pincode : 400011 Email : mehboob@creseentvalves.com	
OVER LOAD RELAYS	electronics	relay	Overload	SCHNEIDER (Earlier TELE MACHANIQUE)		
OVER LOAD RELAYS	electronics	relay	Overload	SIEMENS		
OVER LOAD RELAYS	electronics	relay	Overload	L&T		
OVER LOAD RELAYS	electronics	relay	Overload	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
OVS / PC	Electronics	PC		LEVCON INSTRUMENTS PVT. LTD.	Mr Shayak Gupta/Badal Jana Rajkamal', 7th floor, 13, Carnac Street KOLKATA Phone- 0 33 2283 2766 Pincode : 700017 Email : b_jana@levcongroup.com	
OVS / PC	Electronics	PC		COMPAQ		
OVS / PC	Electronics	PC		HCL		
OVS / PC	Electronics	PC		HP		
OVS / PC	Electronics	PC		DELL		
OVS / PC	Electronics	PC		IBM		
PACKAGE UNIT	Mechanical	package	AC	CARRIER		
PACKAGE UNIT	Mechanical	package	AC	VOLTAS	Corporate Headquarters Voltas Limited Voltas House 'A' Block Dr. Babasaheb Ambedkar Road Chinchpokli	
PACKAGE UNIT	Mechanical	package	AC	BLUE STAR LIMITED	Jamshedji Tata Road, Mumbai - 400 020 Phone: (91) (22) 6665 4000 Fax: (91) (22) 6665 4151 www.bluestarindia.com	
PAINT	Mechanical	Paint	Steel	Hemple Paints (Singapore)		
PAINT	Mechanical	Paint	Steel	Bombay Paints		
PAINT	Mechanical	Paint	Steel	Jenson & Nicholson (I) Ltd		
PAINT	Mechanical	Paint	Steel	Asian Paints (I) Ltd		
PAINT	Mechanical	Paint	Steel	Jotun Paints		
PAINT	Mechanical	Paint	Steel	Grand Polycoat		
PAINT	Mechanical	Paint	Steel	CDC carboline (I) Ltd		
PAINT	Mechanical	Paint	Steel	Goodlass Nerolac		
PAINT	paint			Jotun India Private Limited	Fulcrum, A wing - 601(II)/602, Next to Hyatt Regency, Sahar Road Andheri (E), Mumbai - 400099 +91 22 26848932,+91 226787 2100 jotun.mumbai@jotun.com	
PAINT	Mechanical	Paint	Steel	Addison Paints Ltd		
PAINT	Mechanical	Paint	Steel	Berger Paints India Ltd		
PAINT	Mechanical	Paint	Steel	Shalimar Paints Ltd		
PAN HUMIDIFIER	Mechanical	Humidifier	PAN	RAPID COOL		
PAN HUMIDIFIER	Mechanical	Humidifier	PAN	ALCO		
PAN HUMIDIFIER	Mechanical	Humidifier	PAN	HOTSET		
PIPING – CS SEAMLESS (ASTM A 106)	Mechanical	pipe	CS Seamless	MAHARASHTRA SEAMLESS		
PIPING – CS SEAMLESS (ASTM A 106)	Mechanical	pipe	CS Seamless	ISMT		
PIPING - ERW	Mechanical	Pipe	ERW	INDUS TUBE		
PIPING - ERW	Mechanical	Pipe	ERW	SAIL		
PIPING - ERW	Mechanical	Pipe	ERW	TATA TUBES		
PIPING - ERW	Mechanical	Pipe	ERW	LALIT PROFILE		
PIPING - ERW	Mechanical	Pipe	ERW	TISCO		
PIPING - ERW	Mechanical	Pipe	ERW	BST		
PIPING - ERW	Mechanical	Pipe	ERW	HITECH PIPES		
PIPING - ERW	Mechanical	Pipe	ERW	DADU PIPES		
PIPING - ERW	Mechanical	Pipe	ERW	MAHARASHTRA SEAMLESS		
PIPING - ERW	Mechanical	Pipe	ERW	GOODLUCK TUBES		
PIPING - ERW	Mechanical	Pipe	ERW	MANN INDUSTRIES		
PIPING - ERW	Mechanical	Pipe	ERW	MUKUT PIPES		
PIPING - ERW	Mechanical	Pipe	ERW	JINDAL		
PIPING - ERW	Mechanical	Pipe	ERW	RATNAMANI		
PIPING - ERW	Mechanical	Pipe	ERW	PSL		
PIPING - ERW	Mechanical	Pipe	ERW	JCO GAS PIPES		
PIPING - ERW	Mechanical	Pipe	ERW	SURYA ROSHNI		
PIPING - ERW	Mechanical	Pipe	ERW	PRATIBHA PIPES AND STRUCTURES PVT LTD		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
PIPING - ERW	Mechanical	Pipe	ERW	SURENDRA ENGINEERING		
PIPING - ERW	Mechanical	Pipe	ERW	WELSPUN		
PIPING - ERW	Mechanical	Pipe	ERW	SAMSHI PIPE INDUSTRIES		
PIPING - ERW	Mechanical	Pipe	ERW	NUKAT TANK AND VESSELS		
PIPING - ERW	Mechanical	Pipe	ERW	BIHAR TUBES		
PIPING - ERW	Mechanical	Pipe	ERW	ADVANCE STEEL TUBES		
PLC BASED PANEL	Electronics	PLC		Honeywell Automation India Limited	Mr. Ritwij Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : rajesh.chaudhary@honeywell.com	
PLC BASED PANEL	Electronics	PLC		mitsubishi electric		
PLC BASED PANEL	Electronics	PLC		SCHENIEDER		
PLC BASED PANEL	Electronics	PLC		GE Intelligent Platforms Private Limited	90/B, ELECTRONICS CITY, HOSUR ROAD, BANGLORE Phone- 28528328 Pincode : 561229 Email : shivesh.k.jha@ge.com	
PLC BASED PANEL	Electronics	PLC		ROCKWELL AUTOMATION INDIA LTD	(ALLENBRADLEY),C-11, SITE-4, INDUSTRIAL AREA SHHIBABAD, GHAZIABAD Phone- 2895247-52 Pincode : 201010 Email : pmehrotra@rockwell.com	
PLC BASED PANEL	Electronics	PLC		SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
PLC BASED PANEL	Electronics	PLC		ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
PLUG VALVES	Mechanical	Valve	Plug	EMERSON PROCESS MANAGEMENT CHENNAI LIMITED	147, KARAPAKKAM VILLAGE, CHENNAI Phone- 23722184, 23716242 Pincode : 600096 Email : jatinder.singh@emerson.com	CL.150 NB 450 , CL. 300 NB 400, NB,CL. 600 NB 150, MATL. CCS, SH A216 GR WCB AND CCS, SH A351 GR. CF8M
PLUG VALVES	Mechanical	Valve	Plug	WEIR BDK VALVES- A UNIT OF WEIR INDIA PVT. LTD.	DLF Tower-B, Unit No: 1212, 1214 & 1215, 12th Floor, Jasola District Centre, Sarita Vihar, New Delhi - 110044 NEW DELHI Phone- 011-40503345/46/ 47 Pincode : 110044 Email : Brijesh.Manchanda@mail.weir	
PLUG VALVES	Mechanical	Valve	Plug	LARSEN and TOUBRO LTD.	Mr. Mohan Kumar L & T HOUSE, BALLARD ESTATE, P.O.BOX-278, MUMBAI Phone- 22618181/82 Pincode : 400001 Email : BAS@LNTECC.COM	
PNEUMATIC ACTUATOR/ CYLINDER (UP TO 12"	Mechanical	Actuator		SCHARDER		
PNEUMATIC ACTUATOR/ CYLINDER (UP TO 12"	Mechanical	Actuator		ROTEX		
PNEUMATIC ACTUATOR/ CYLINDER (UP TO 12"	Mechanical	Actuator		VASS		
PNEUMATIC ACTUATOR/ CYLINDER (UP TO 12"	Mechanical	Actuator		NUCON		
PRECISION PACKAGE UNITS	Mechanical	package	AC	STUIJZ		
PRECISION PACKAGE UNITS	Mechanical	package	AC	CLIMADENTA		
PRECISION PACKAGE UNITS	Mechanical	package	AC	BLUEBOX		
PRECISION PACKAGE UNITS	Mechanical	package	AC	EMERSON PROCESS MANAGEMENT (INDIA) PVT.LTD.	Mr. Amit Paithankar/Vikram Raj Singh 206-210,BALARAMA BUILDING 2ND FLR. BANDRA EAST MUMBAI Phone- 9619121500 Pincode : 400051 Email : vikramraj.singh@emerson.com	
PRECISION PACKAGE UNITS	Mechanical	package	AC	UNIFLAIR		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	Instrument	Gauge Pressure Diff Pressure	WIKA		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	FORBES MARSHALL (HYD) LTD.	MR SAILESH PATALAY/MR. M K SRINIVASAN PLOT NO.A-19/2, & T-4/2, IDA, NACHARAM, HYDERABAD Phone- 9849913704 Pincode : 500 076 Email : mksrinivasan@forbesmarshall.com	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	MANOMETER INDIA		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	H.GURU INSTRUMENTS (SOUTH INDIA) P. LTD	32,INDUSTRIAL SUBURB YESWANTHAPUR BANGALORE Phone- 080-23370300, Pincode : 560022 Email : info@hgurusouth.com	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	LEVCON	Levcon Instrument Pvt. Ltd. S Gupta(Managing Director) No. 138 F Road, Picnic Garden, Bali Ganj Ciljala Post Office, Picnic Garden, Kolkata - 700039, West Bengal, India +91-9831826893	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	BOSE PANDA INSTRUMENTS PVT.LTD.	Mr. Partha Bose 44, Saheed Hemanta Kumar Bose, Sarani, Kolkata Phone- +91 33 2548 7220 Pincode : 700074 Email : parthabosebpi@gmail.com; bosepanda@vsnl.net	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	SIGMA		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	D K INSTRUMENTS		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	Instrument	Gauge Pressure Diff Pressure	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone- 9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	BARTON INST. SYSTEM		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	BUDENBERG GUAGE CO.LTD.		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	TRAFAG		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	Nesstech Instruments Private Limited	26/2, G Type, Global Industrial Park Near Nahuli Railway Crossing, Valvada Vapi Phone- 9920576002 Pincode : 396105 Email : sales@nesstech.co.in	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	Instrument	Gauge Pressure Diff Pressure	GLUCK INDIA		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gauge Pressure Diff Pressure	A.N. INSTRUMENTS PVT. LTD.	MARKETING DIVISION, 5th FLOOR, 59-B, CHOWRINGHEE ROAD, KOLKATA Phone- 24757784,2472509 Pincode : 700020 Email : anidel@bol.net.in	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	PRECISION MASS PRODUCTS PVT. LTD.	Mr. Nishit Patel/Mr. Anuj Verma Plot No.2306, Phase II, GIDC Chhatral Kalol Phone- 9999464663 Pincode : 382729 Email : sales@precisionmass.com	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	INDFOSS		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	Instrument	Gauge Pressure Diff Pressure	WAAREE INSTRUMENTS		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	GAUGE BOURDON INDIA PVT. LTD.	194/195, Gopi Tank Road, Off Pandurang Naik Marg, Mahim Mumbai, Phone- 011-41607463, Pincode : 400016, Email : gicdelhi@general- gauges.com,	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	SWITZER (DP GAUGE)		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	AUXITROL		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	Instrument	Gauge Pressure Diff Pressure	GENERAL INSTRUMENTS CONSORTIUM	Mr. Amarendra Kulkarni 194/195, Gopi Tank Road, Off. Pandurang Naik Marg, Mahim Mumbai Phone- 9323195251 Pincode : 400016 Email : amarendra@general-gauges.com	
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	DRESSER		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	SBEM, PUNE		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	PUNE TECHTROL		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	Instrument	Gauge Pressure Diff Pressure	ASHCROFT INDIA PVT LTD.		
PRESSURE GAUGE/ DIFF.PRESSURE GAUGE	Electronics	INSTRUMENTS	Gasuge Pressure	GOA THERMOSTATIC		
Pressure Relief Valve	Mechanical	VALVE	PRV	SELF MANUFACTURED		
PRESSURE RELIEF VALVE	Mechanical	RELIEF VALVE		SUPPLIERS/SUB-VENDORS		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	PRECISION MASS PRODUCTS PVT. LTD.	Mr. Nishit Patel/Mr. Anuj Verma Plot No.2306, Phase II, GIDC Chhatral Kalol Phone- 9999464663 Pincode : 382729 Email : sales@precisionmass.com	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	GENERAL INSTRUMENTS CONSORTIUM	Mr. Amarendra Kulkarni 194/195, Gopi Tank Road, Off. Pandurang Naik Marg, Mahim Mumbai Phone- 9323195251 Pincode : 400016 Email : amarendra@general-gauges.com	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	VASU		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	MITTAL REFRIGERATION		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	Barksdale GmbH, Germany	Michael Weileder Dorn Assenheimer, Strasse 27 Reichelsheim Phone- +91-9999107840 Pincode : D-61203 Email : msingh@barksdale.de	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	BARKSDALE GMBH		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	DANFOSS		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	DELTA CONTROL		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	Kaustubha Udyog,	S.No. 36/1/1, Sinhgad Road, Vadgaon Khurd, Near Lokmat Press, Pune, Phone- 020-24393577, Pincode : Email : pressure@vsnl.com,	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	KASTURBA UDYOG		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	BELLS CONTROLS LTD		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	SOR INC.	LARRY DEGARMO/Avdshesh Chandra, 14685 W. 105TH STREET LENEXA Phone- 09810905139, Pincode : 66215 Email : Ldegarmo@sorinc.com, avdshesh@sherman-india.com,	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	DK INSTRUMENTS		
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	DRESSER INDUSTRIES INC.	Mr. Nishit Patel/Mr. Anuj Verma Plot No.2306, Phase II, GIDC Chhatral Kalol Phone- 02764- 233682 Pincode : 382729 Email : Nishit.patel@ashcroftindia.com	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	SWITZER PROCESS INSTRUMENTS PVT. LTD.	Mr. V S Jayaprakash, 128, SIDCO North Phase, Ambattur Estates CHENNAI Phone- 044- 26252017/2018 Pincode : 600050 Email : sales@switzerprocess.co.in	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	INSTRUMENTS	PRESSURE SWITCH	INDFOS (INDIA) LIMITED	MR.L.C.VENKATRANGAN/MR.B.KANNAN New No.17, II Floor, Adwawe Towers, Dr.Sevalia Shivaji Salai, T.Nagar Chennai Phone- +91 44 24353407 Pincode : 600017 Email : delhi@indfos.com	
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	ASHCROFT INDIA PVT LTD.		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
PRESSURE SWITCH/DIFF. PRESSURE SWITCH	Electronics	Instrument	Switch P DP	TRAFAG		
PRESSURE VESSELS	MECHANICAL	VESSELS	PRESSURE	S. V. Fabricators	S. V. Fabricators Satish Thakor(Proprietor) No. 856/9- E, GIDC Estate, Makarpura, Makarpura Gidc, Vadodara - 390010, Gujarat, IN DIA Call Us:  +91-9726716894 Send SMS	
PRESSURE VESSELS	Mechanical	VESSELS	PRESSURE	Murthal Tanks & Vessels	50 K.M Stone(Link Road Kurar) G.T. Road, Murthal, Sonipat 131001 Haryana, India Phone 1: +91 9812003117  Phone 2: +91 9991410000  Phone 3: +91 8254900009 info@murthaltanks.com  mtv_murthal@yahoo.co.in	
PRESSURE VESSELS	mechanical	VESSELS	PRESSURE	Rishi Industries	Address :40 L M Stone,GT Road Sonapat, Bahalgarh Road, Bahalgarh, Sonipat - 131001 , Haryana , India Contact Person :Mr. S D Bhutani (Proprietor) Phone :91-130-2381202 Mobile :+919992555844 State:Haryana Phone:91-1264-282801 Fax:91-1264-282899	
PRESSURE VESSELS	Mechanical	VESSELS	PRESSURE	Universal Heat Exchangers Ltd	Plant - I Pollachi Road Malumachampatti Post Coimbatore- 641021, India Phone - +91-(422)-2610835, 2610836 Fax - +91-(422)-2610746 Email - marketing@uniheat.com	
PRESSURE VESSELS	MECHANICAL	VESSELS	PRESSURE	Jasmino Polymertech Pvt Ltd	Jasmino Polymertech Pvt Ltd M.Perumal (Manager) L ४४४ 61, MIDC Talaja, MIDC Talaja, Raigad - 410208, Maharashtra, India Call Us:  +91-9821948287	
PRESSURE VESSELS	Mechanical	Vessels	PRESSURE	ATS CHEM EQUIPMENTS PVT LTD	Unit - I, C - 27, SIDCO Industrial Estate, Hosur - 635 126, Tamil Nadu, India. Phone : 04344 - 276731 MR. S.THANGARAJ Managing Director Contact No : +91 - 9443378152  Mr. S.Arumugam Director Contact No : Contact No : +91 - 9443376731  Mr. H.M.Ammar Dire	
PRESSURE VESSELS	MECHANICAL	VESSELS	PRESSURE	SYSCON ENGINEERS	Contact Person : Mr. C. A. Benadikar  207, Dhanlaxmi Service Industrial Estate, Above Navneet Motors, L. B. S. Marg, Thane (W) - 400 601. Maharashtra ( INDIA)  Tel. No. : +91-22-2172 1108, 4088 Telefax No. : +91-22-2172 1497  E-mail :head	
PRESSURE VESSELS	MECHANICAL	VESSELS	PRESSURE	SPARK ENGINEERS	Address: 'J' Block, Plot No. 429, MIDC, Bhosari, Pune - 411 026 Ph:(020) 46768504 / 66113897Telefax:(020) 27130510 / 66113897 Email:info@sparkengineers.co.in	
PRESSURE VESSELS	MECHANICAL	VESSELS	PRESSURE	The Anup Engineering Limited	The Anup Engineering Limited Soni ni chali, G I D C Industrial Area, Odhav, Ahmedabad, Gujarat 382350 Telephone +91-79-2287 0622 +91-79-4025 8900  Fax +91-79-2287 0642  Sales Related marketing@anupengg.com  Procurement procurement@anupengg.com	
PRESSURE VESSELS	mechanical	VESSELS	PRESSURE	Progen Systems & Technologies Limited	Add Photo Apollo Computer Education LtdHB EDUCATION AND CONSULTING SERVICES PVT LTD HB EDUCATION AND CONSULTING Triton Square, 1st Floor, Skcl Building, Unit No: C3 To C7, Thiru VI Ka Industrial Estate, Guindy, C, Guindy, Chennai - 600032 (Map)	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
PRESSURE VESSELS	mechanical	VESSELS	PRESSURE	Crystal Engineering Systems Pvt.Ltd.	Survey No:1186/2A & 2B Opp. to FIEM Industries Kelamangalam road Achettpalli (P.O.), HCF (Via) Hosur-635110. Tamilnadu, India. Phone : 91-4344-656053, 656062 Mobile : +91-9443358771/9655218771 Email : enquiry@crystalengineeringsystems.com	
PRESSURE VESSELS	Mechanical	VESSELS	PRESSURE	ISHAN EQUIPMENTS PVT. LTD	(UNIT- I) 404 - 405, GIDC Industrial Estate,  B/h L&T NIRO,  Ranoli - 391 350,  Dist Baroda (Gujarat) India  +91-0265-2308589  +91-0265-2241217  info@ishanequipments.com	
PRESSURE VESSELS	Mechanical	VESSELS	PRESSURE	Titan Engineering Company Private Limited	Indrajit Sengupta(Manager) No. 2/7, Sarat Bose Road, 5th Floor., Sarat Bose Road, Kolkata - 700020, West Bengal, India Call Us: +91-9434009032	
PRESSURE VESSELS	mechanical	VESSELS	PRESSURE	Chem Process Systems	15 Natraj Industrial Estate, Sanand-Viramgam Highway, Vasna-Iyava, Sanand - 382 170. Ahmedabad, India.+91 2717 284148- 49+91 2717 284194 chem@chemprosyst.com Mr. Sagar Desai HR Manager sagar@chemprosyst.com	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	YOKOGAWA	PLOT NO.96, ELECTRONICS CITY COMPLEX, HOSUR ROAD, BANGALORE, Phone- 080-41586000, Pincode : Email : uday.shankar@in.yokogawa.com,	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	Honeywell Automation India Limited	Mr. Ritwij Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : rajesh.chaudhary@honeywell.com	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	SMART INSTRUMENTS LTD, BRAZIL	Agents: Digital Electronic Ltd. 74/11 'C' Cross Road MIDC Andheri (East) MUMBAI Phone- 28208477 Pincode : 400093 Email : corp@delby.rpgms.ems.vsnl.net.in	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	V. AUTOMAT & INSTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	EMERSON PROCESS MANAGEMENT CHENNAI LIMITED	147, KARAPAKKAM VILLAGE, CHENNAI Phone- 23722184, 23716242 Pincode : 600096 Email : jatinder.singh@emerson.com	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	FUJI		
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	MOORE		
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	Endress + Hauser (India) Pvt. Ltd.,	Mr. Prakash Vaghela 215-216, DLF Tower 'A', Jasola District Centre, New Delhi, Phone- 9717593001, Pincode : 110025, Email : prakash.vaghela@in.endress.com,	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincode : 305002 Email : toshniwalprocess@gmail.com	
PRESSURE/ DIFF. PRESSURE TRANSMITTER	Electronics	Transmitter	P DP	SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	
PRINTER	Electronics	Printer		EPSON		
PRINTER	Electronics	Printer		CANON		
PRINTER	Electronics	Printer		HP		
PRINTER	Electronics	Printer		IBM		



Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
PRINTER	Electronics	Printer		XEROX	Trinity Plaza, 84/1A, Topsia Road (South), Kolkata-700046 KOLKATA Phone- Pincode : 700046 Email : bs@wpil.co.in; nrosales@wpil.co.in	
PRINTER	Electronics	Printer		LEXMARK		
PROGRAMMABLE LOGIC CONTROLLER	Electronics	PLC		mitsubishi electric india pvt. ltd.	Mr. Mehul Dholakia Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune Phone- 020-27102000 Pincode : 411026 Email : mehul.dholakia@asia.meap.com	
PROGRAMMABLE LOGIC CONTROLLER	Electronics	PLC		Honeywell Automation India Limited ,	56 & 57, Hadapsar Industrial Estate, Pune, Phone- 9689940949, Pincode : Email : amit.aglave@honeywell.com,	
PROGRAMMABLE LOGIC CONTROLLER	Electronics	PLC		ROCKWELL AUTOMATION INDIA LTD	(ALLENBRADLEY) C-11, SITE-4, INDUSTRIAL AREA SHHIBABAD, GHAZIABAD Phone- 2895247-52 Pincode : 201010 Email : pmehrotra@rockwell.com	
PROGRAMMABLE LOGIC CONTROLLER	Electronics	PLC		SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
PROGRAMMABLE LOGIC CONTROLLER	Electronics	PLC		GE Intelligent Platforms Private Limited	90/B, ELECTRONICS CITY, HOSUR ROAD, BANGLORE Phone- 28528328 Pincode : 561229 Email : shivesh.k.jha@ge.com	
PROGRAMMABLE LOGIC CONTROLLER	Electronics	PLC		SCHNEIDER ELECTRIC INDIA PVT.LTD.	A-4 , MOHAN CO-OP INDL AREA MATHURA ROAD NEW DELHI Phone- Pincode : 110044 Email : aditya.bawa@schneider-electric.com	
Pumps	Mechanical	Pump	Centrifugal horizontal	KIRLOSKAR BROTHERS LTD.	KIRLOSKAR PRESS COMPOUND, UDYOG BHAWAN,TILAK ROAD, PUNE Phone- 2447550,240672 Pincode : 411002 Email : kblin@kbl.co.in; gosain@del.kbl.co.in	
PUSH BUTTONS	Electronics	panel	Push Buttons	SCHNEIDER		
PUSH BUTTONS	Electronics	panel	Push Buttons	BCH		
PUSH BUTTONS	Electronics	panel	Push Buttons	SIEMENS		
PUSH BUTTONS	Electronics	panel	Push Buttons	L&T		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	SPECIAL CABLES PVT. LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	KEC INTERNATIONAL LIMITED		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	ELKAY TELELINKS LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	KRISHNA ELECTRICAL INDUSTRIES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	APAR INDUSTRIES LTD., CMI LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	HAVELLS INDIA LIMITED		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	CORDS CABLE INDUSTRIES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	NICCO CORPORATION LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	MANSFIELD CABLES COMPANY LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	KEI INDUSTRIES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	UNIVERSAL CABLES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	CMI LIMITED		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	CRYSTAL CABLE INDUSTRIES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	RAVIN CABLES LIMITED		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	ADVANCE CABLE TECHNOLOGIES (P) LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	SPM POWER & TELECOM PVT. LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	SUYOG ELECTRICALS LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	INCOM CABLES (P) LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	SCOT INNOVATION WIRES AND CABLES PVT. LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	DIAMOND POWER INFRASTRUCTURE LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	POLYCAB WIRES PVT. LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	SAM CABLES & CONDUCTORS (P) LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	GEMSCAB INDUSTRIES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	THERMO CABLES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	PARAMOUNT COMMUNICATIONS LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	TIRUPATI PLASTOMATICS PVT. LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	GOVIND CABLE INDUSTRIES		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	TORRENT CABLES LTD		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	GUPTA POWER INFRASTRUCTURE LIMITED		
PVC CONTROL CABLES	Electrical	Cable	PVC Control	DELTON CABLES LTD		
PVC WIRES	Electrical			K C POWERTRACKS	Mr. SUDHAKAR GARG (CEO), S. NO. 185/1/1, PLOT NO. 7, DOKMARDI SILVASSA Phone- 02602600031 Pincode : 396230 Email : powertrackscable@gmail.com	
PVC WIRES	Electrical			VICTOR PUSHIN CORDS PVT. LTD.	Mr. Bimal Kumar Sharma, C-10 Site-C, Surajpur Industrial Area, Greater Noida Phone- 0120-2561015 Pincode : 201306 Email : bimal@victorcomponent.co.in	
PVC WIRES	Electrical			CMI LTD.	Mr. Munishvar Gaur, 501-503, New Delhi House, 27, Barakhamba Road New Delhi, Phone- 9599599244 Pincode : 110001 Email : mgaur@cmilimited.in	
PVC WIRES	Electrical			ALLIED ENGINEERING WORKS PVT. LTD.	M-11&22, BADLI INDUSTRIAL ESTATE NEW DELHI Phone- 01127850456 Pincode : 110042 Email : goelashutosh@yahoo.com	
PVC WIRES	Electrical			PARAMOUNT COMMUNICATIONS LTD.	Mr. Sanjay Aggarwal C-125, Naraina Industrial Area, Phase-I, NEW DELHI Phone- 9650005915 Pincode : 110028 Email : jatan.singh@paramountcables.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
PVC WIRES	Electrical			POLYCAB INDIA LIMITED	HICO HOUSE, 1st FLOOR, 771, PANDIT SATWALEKAR MARG, MAHIM, MUMBAI Phone- 011-29841697 Pincode : 400016 Email : <a href="mailto:Insingh@polycab.com">Insingh@polycab.com</a>	
PVC WIRES	Electrical			ASIAN GALAXY PVT. LTD.	Mr. Vikas Garg, 203, Aditya Complex, Local Shopping Centre Sarita Vihar 110092 Phone- 011-43025843 Pincode : New Delhi Email : <a href="mailto:vikasgarg@v-marc.in">vikasgarg@v-marc.in</a>	
PVC WIRES	Electrical			TAMRA DHATU UDYOG PVT. LTD.	MR. RAM KR SINGHEE, SAGAR ESTATE, UNIT NO #703, 2, N.C.DUTTA SARANI, KOLKATA Phone- 033 22315602/05 Pincode : 700001 Email : <a href="mailto:enquiry@tamradhatu.com">enquiry@tamradhatu.com</a>	
PVC WIRES	Electrical			SUYOG ELECTRICALS LTD.	Mr. Bimal Y. Desai / Mr. Hareesh Hansoti 1, Madhuvan Apartment, 24 Arunoday Society, Alkapuri VADODARA Phone- 9227192737 Pincode : 390 007 Email : <a href="mailto:suyog@seplcables.com">suyog@seplcables.com</a>	
PVC WIRES	Electrical			SURAJ CABLES	C-412-413, DSIDC INDUSTRIAL AREA, NARELA, DELHI Phone- 011-27781078 Pincode : 110040 Email : <a href="mailto:SURAJCABLES@GMAIL.COM">SURAJCABLES@GMAIL.COM</a>	
PVC WIRES	Electrical			AVAIDS TECHNOVATORS PVT. LTD.	Shri Rajesh Piplani 4A/58, Shankar Road NEW DELHI Phone- 9910481854 Pincode : 110060 Email : <a href="mailto:rajendra@avaids.com">rajendra@avaids.com</a> , <a href="mailto:papandey@avaids.com">papandey@avaids.com</a>	
PVC WIRES	Electrical			Pagoda Cables Pvt. Ltd.	Mr. Arun Kumar (MD), A-62, Sector - 58 Noida Phone- 01122392801 Pincode : 201301 Email : <a href="mailto:vishek.mittal@pagodacables.com">vishek.mittal@pagodacables.com</a>	
PVC WIRES	Electrical			Hadron System Pvt. Ltd.	Mr. Tarun Gautam, 2400, Sector-9, Near IOCL Faridabad Phone- 01294037400 Pincode : 121006 Email : <a href="mailto:tarun.gautam@hadronpower.com">tarun.gautam@hadronpower.com</a>	
PVC WIRES	Electrical			Zenium Cables Ltd.	H.O.:102/103 Leena Heights, Opp. Thunga Hospital Mira Bhayander Road, Mira Road(E) Thane Phone- 02228114444 Pincode : 401107 Email : <a href="mailto:info@zeniumcables.com">info@zeniumcables.com</a>	
PVC WIRES	Electrical			GUPTA POWER INFRASTRUCTURE LIMITED,	Mr. NITISH KUMAR PARIDA ,502, 5th Floor, K M Trade Tower, Radisson Blu Complex, Sector-14, Kaushambi Ghaziabad Phone- 09861995978 Pincode : 201010 Email : <a href="mailto:info@guptapower.com">info@guptapower.com</a>	
Relay	electronics	relay		SALZER,		
Relay	electronics	relay		SIEMENS		
Relay	electronics	relay		SCHNIDER ELECTRIC.		
Relay	electronics	relay		SCHNEIDER TELEMECHANIQUE		
RH SENSOR/TEMP SENSOR	Electronics	sensor	RH PH	SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : <a href="mailto:ankit.varshney@siemens.com">ankit.varshney@siemens.com</a>	
RH SENSOR/TEMP SENSOR	Electronics	sensor	RH PH	JOHNSON		
RH SENSOR/TEMP SENSOR	Electronics	sensor	RH PH	GENERAL INSTRUMENTS CONSORTIUM	Mr. Amarendra Kulkarni 194/195, Gopi Tank Road, Off. Pandurang Naik Marg, Mahim Mumbai Phone- 9323195251 Pincode : 400016 Email : <a href="mailto:amarendra@general-gauges.com">amarendra@general-gauges.com</a>	
RH SENSOR/TEMP SENSOR	Electronics	sensor	RH PH	Honeywell Automation India Limited	Mr. Ritwij Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : <a href="mailto:rajesh.chaudhary@honeywell.com">rajesh.chaudhary@honeywell.com</a>	
ROTAMETER	Electronics	INSTRUMENTS	Flow meter	EUREKA INDUSTRIAL EQUIPMENTS PVT.LTD.	Mr V. K. Pandit/Mr Ashish Shaha 17-20, Royal chambers, Paud Road Pune Phone- 9370469466 Pincode : 411038 Email : <a href="mailto:sales@eurekaflow.com">sales@eurekaflow.com</a>	
ROTAMETER	Electronics	Instrument	indicator flow	TRANSUDCERS AND CONTROL		
ROTAMETER	Electronics	Instrument	indicator flow	EUREKA INDUSTRIAL EQUIPMENTS PVT.LTD.	Mr V. K. Pandit/Mr Ashish Shaha 17-20, Royal chambers, Paud Road Pune Phone- 9370469466 Pincode : 411038 Email : <a href="mailto:sales@eurekaflow.com">sales@eurekaflow.com</a>	
ROTAMETER	Electronics	INSTRUMENTS	Flow meter	Flow Star Engineering Pvt. Ltd.,	MR. KHALID AKHTAR/MR. TAPAN KUMAR JANA Plot No-7 F/2, Northern India Industrial 20/3, Mathura Road FARIDABAD Phone- 9818176380 Pincode : 121005 Email : <a href="mailto:khalid@flowstar.co.in">khalid@flowstar.co.in</a>	
ROTAMETER	Electronics	Instrument	indicator flow	CHEMTROLS INDUSTRIES PVT. LTD.	Mr. K. NANDAKUMAR AMAR HILL, SAKI VIHAR ROAD, POWAI, MUMBAI Phone- 022-67151261 Pincode : 400072 Email : <a href="mailto:manikandan@chemtrols.com">manikandan@chemtrols.com</a>	
ROTAMETER	Electronics	INSTRUMENTS	Flow meter	TANSA EQUIPMENTS PVT. LTD.	Mr. Vardhan Tamhankar, Unit No35/36/41, Om Anand Industrial Est. Mohanjee Sundarjee Road, Raghunath Nagar, Thane Phone- 022-25832323 Pincode : 400604 Email : <a href="mailto:tansaindia@gmail.com">tansaindia@gmail.com</a>	
ROTAMETER	Electronics	Instrument	indicator flow	Flow Star Engineering Pvt. Ltd.,	MR. KHALID AKHTAR/MR. TAPAN KUMAR JANA Plot No-7 F/2, Northern India Industrial 20/3, Mathura Road FARIDABAD Phone- 9818176380 Pincode : 121005 Email : <a href="mailto:khalid@flowstar.co.in">khalid@flowstar.co.in</a>	
ROTAMETER	Electronics	Instrument	indicator flow	INSTRUMENTATION ENGINEERS PVT LTD	SH.N.V.RAM GOPAL/MS. N.NIHARIKA PLOTS 1,2,3, PHASE-III, IDA, JEEDIMETLA HYDERABAD Phone- 9848407365 Pincode : 500055 Email : <a href="mailto:iedelhi@ieflowmeters.com">iedelhi@ieflowmeters.com</a>	
ROTAMETER	Electronics	Instrument	indicator flow	FLOWTECH INSTRUMENTS SERVICRS		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
ROTAMETER	Electronics	Instrument	indicator flow	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone-9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
ROTAMETER	Electronics	INSTRUMENTS	Flow meter	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone-9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
ROTAMETER	Electronics	Instrument	indicator flow	IL		
ROTAMETER	Electronics	INSTRUMENTS	Flow meter	INSTRUMENTATION ENGINEERS PVT LTD	SH.N.V.RAM GOPAL/MS. N.NIHARIKA PLOTS 1,2,3, PHASE-III, IDA, JEEDIMETLA HYDERABAD Phone-9848407365 Pincode : 500055 Email : iedehi@ieflowmeters.com	
Rubber lining	mechanical			Temsec Rubber Private Limited	153/1, Jessore Road, Baisakhi & Srabani Apartment Dum Dum, Near Amar Pally, South Dum Dum, Kolkata-700074, West Bengal, India Palash Paul ( Director ) 08048717861	
Rubber Lining	mechanical	Rubber lining		Rishi Industries	Address :40 L M Stone,GT Road Sonepat, Bahalgarh Road, Bahalgarh, Sonipat - 131001 , Haryana , India Contact Person :Mr. S D Bhutani (Proprietor) Phone :91-130-2381202 Mobile :+919992555844 State:Haryana Phone:91-1264-282801 Fax:91-1264-282899	
Rubber Lining				CORI ENGINEERS PVT LTD	No 2, Type II, VSI Estate, Rajiv Gandhi Salai (OMR), Thiruvanniyur, Chennai - 600041 Ph: +91-44-42897500,+91-44-22542426, +91-44-22542421 Fax: +91-44-24405152 Email: oldone-cori@vsnl.com , sales@corirubber.com , Website: http://www.igp-group.co	
Rubber lining				POLY RUBBER PRODUCTS	Patanawala Estate, L.B.S. Marg, Ghatkopar(W), Mumbai, Maharashtra 400086 फोन: 022 2500 2246	
Rubber lining				Industrial Linings Baroda Pvt Ltd	Plot No. 254, Gidc Estate, Makarpura Industrial Estate, Vadodara - 390010 91-9992565412 Send SMS	
Rubber Lining				Arul Rubbers Private Limited	Corporate Office: ARUL RUBBERS PVT.LTD., B-5, SIDCO Industrial Estate HOSUR - 635 126, Krishnagiri Dt., Tamil Nadu, INDIA Marketing vp.marketing@arulrubbers.com mgr.marketing@arulrubbers.com +91 82200 40044 Technical Services tech.services@arulrubbers.co	
Rubber Lining	vessels	pressure		Jasmino Polymertech Pvt Ltd	Jasmino Polymertech Pvt Ltd M.Perumal (Manager) L २२२ 61, MIDC Taloja, MIDC Taloja, Raigad - 410208, Maharashtra, India Call Us: +91-9821948287	
Rubber Lining				Elastomer Lining Works Pvt Ltd	Office No, W-22/23, MIDC Chemical Zone, Chemical Zone, Ambernath South, Thane - 421501, Near Ordinance 0251 261 0723	
Rubber Lining				Emkay Rubber Works	Plot No. A-270 Road Number 33 Opposite ESIS Hospital, Thane, Maharashtra 400604 022 2582 1113	
Rubber Lining				Western Rubber Works Pvt. Ltd.	plot number R-73-74, MIDC, RABALE, THANE BELAPUR ROAD, Navi Mumbai, Maharashtra, 400701, India Supplier: Mr. Jiby Maliakkal Director	
SCREENED CONTROL CABLES	Electrical			Advance Cable Technologies (P) Ltd.	Mr. Siddharth Jain G-1, Sunrise Serenity, No.1,40 Ft.Road, M.R. Garden,Geddalahalli, Aswathnagar, Bangalore Phone- 9845326881 Pincode : 560094 Email : dbhat@advancecable.in	
SCREENED CONTROL CABLES	Electrical			THERMO CABLES LTD.	Ms.UMA GHURKA/N.SRINIVASA RAO 28, NAGARJUNA HILLS, PUNJAGUTTA HYDERABAD Phone- 9397803596 Pincode : 500082 Email : isharna@thermocables.com	
SCREENED CONTROL CABLES	Electrical			KEI INDUSTRIES LTD.	Mr. ANIL GUPTA D-90, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI Phone- 011-26818840 Pincode : 110020 Email : lalit.saxena@kei-ind.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
SCREENED CONTROL CABLES	Electrical			CMI LTD.	Mr.Munishvar Gaur, 501-503,New Delhi House, 27,Barakhamba Road New Delhi, Phone- 9599599244 Pincode : 110001 Email : mgaur@cmilimited.in	
SCREENED CONTROL CABLES	Electrical			CORDS CABLE INDUSTRIES LTD.	MR. NAVEEN SAWHNEY B-1/A-26, MOHAN CO- OPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI Phone- 9818356799 Pincode : 110044 Email : sg@cordscable.com	
SCREENED CONTROL CABLES	Electrical			DELTON CABLES LTD.	MR. V.K. GUPTA 4801, BHARAT RAM ROAD, 24, DARYA GANJ, NEW DELHI Phone- 9560866060 Pincode : 110002 Email : shashikumar@deltoncables.com	
SCREENED CONTROL CABLES	Electrical			SERVEL INDIA PVT. LTD.	Mr.ALOK SAXENA, DGM - Business Developm S-15, Okhla Phase II New Delhi Phone- 01126385900 Pincode : 110020 Email : asaxena@servelindia.com	
SCREENED CONTROL CABLES	Electrical			T C Communication Pvt. Ltd.	Mr. Ashok Bathwal 505, Vikas Deep, 18 Laxmi Nagar District Centre New Delhi Phone- 9810002411 Pincode : 110092 Email : ashok@technocab.in	
SCREENED CONTROL CABLES	Electrical			POLYCAB INDIA LIMITED	HICO HOUSE, 1st FLOOR, 771, PANDIT SATWALEKAR MARG, MAHIM, MUMBAI Phone- 011-29841697 Pincode : 400016 Email : lnsingh@polycab.com	
SCREENED CONTROL CABLES	Electrical			SPECIAL CABLES PVT. LTD.	MR.MUKUL KHANNA-VICE PRESIDENT B-II/12, Mohan Cooperative Industrial estate, Badarpur, Mathura Road NEW DELHI Phone- 9599186479 Pincode : 110044 Email : sales@specialcables.co.in	
SCREENED CONTROL CABLES	Electrical			ELKAY TELELINKS LTD.	Mr. Vinod Dubey K.C.HOUSE,5/66, PADAM SINGH ROAD, KAROL BAGH, NEW DELHI Phone- 9899789830 Pincode : 110005 Email : projects@elkaygroup.net	
SCREENED CONTROL CABLES	Electrical			SUYOG ELECTRICALS LTD.	Mr.Bimal Y.Desai/Mr. Hareesh Hansoti 1, Madhuvan Apartment,24 Arunoday Society,Alkapuri VADODARA Phone- 9227192737 Pincode : 390 007 Email : suyog@seplcables.com	
SCREENED CONTROL CABLES	Electrical			GUPTA POWER INFRASTRUCTURE LIMITED,	Mr. NITISH KUMAR PARIDA ,502, 5th Floor, K M Trade Tower,Radisson Blu Complex, Sector-14, Kaushambi Ghaziabad Phone- 09861995978 Pincode : 201010 Email : info@guptapower.com	
SCREENED CONTROL CABLES	Electrical			PARAMOUNT COMMUNICATIONS LTD.	Mr. Sanjay Aggarwal C-125, Naraina Industrial Area, Phase-I, NEW DELHI Phone- 9650005915 Pincode : 110028 Email : jatan.singh@paramountcables.com	
SCREW/SCROLL/CENTRIFUGAL /RECIPROCATING CHILLER	Mechanical	Chiller	SCREW/SCROLL/CENTRIFUGAL/RECIPROCATING	BLUE STAR LIMITED	Jamshedji Tata Road, Mumbai - 400 020 Phone: (91) (22) 6665 4000 Fax: (91) (22) 6665 4151 www.bluestarindia.com	
SCREW/SCROLL/CENTRIFUGAL /RECIPROCATING CHILLER	Mechanical	Chiller	NTRIFUGAL/RECIPROCATING	TRANE	Corporate Headquarters Voltas Limited Voltas House 'A' Block Dr. Babasaheb Ambedkar Road Chinchpokli	
SCREW/SCROLL/CENTRIFUGAL /RECIPROCATING CHILLER	Mechanical	Chiller	SCREW/SCROLL/CENTRIFUGAL/RECIPROCATING	VOLTAS	KIRLOSKAR PRESS COMPOUND, UDYOG BHAWAN,TILAK ROAD, PUNE Phone- 2447550,240672 Pincode : 411002 Email : kblin@kbl.co.in; gosain@del.kbl.co.in	
SCREW/SCROLL/CENTRIFUGAL /RECIPROCATING CHILLER	Mechanical	Chiller	NTRIFUGAL/RECIPROCATING	DUNHAM BUSH		
SCREW/SCROLL/CENTRIFUGAL /RECIPROCATING CHILLER	Mechanical	Chiller	NTRIFUGAL/RECIPROCATING	MCQUAY (DAIKIN)		
SCREW/SCROLL/CENTRIFUGAL /RECIPROCATING CHILLER	Mechanical	Chiller	NTRIFUGAL/RECIPROCATING	CARRIER		
SCREW/SCROLL/CENTRIFUGAL /RECIPROCATING CHILLER	Mechanical	Chiller	NTRIFUGAL/RECIPROCATING	YORK		
SIGNAL CABLES	electrical	cable	Singnal	NICCO		
SIGNAL CABLES	electrical	cable	Singnal	THERMOCABLES		
SIGNAL CABLES	electrical	cable	Singnal	POLYCAB		
SIGNAL CABLES	electrical	cable	Singnal	PARAMOUNT CABLE		
SIGNAL CABLES	electrical	cable	Singnal	ELAKAY TELELINKS		
SIGNAL CABLES	electrical	cable	Singnal	UNIVERSAL		
SIGNAL CABLES	electrical	cable	Singnal	CORDS CABLE		
SIGNAL CABLES	electrical	cable	Singnal	KEI		
SIGNAL CABLES	electrical	cable	Singnal	RELIANCE ENGR.		
SIGNAL CABLES	electrical	cable	Singnal	DELTON		
Solenoid Valves	Mechanical	Valve	Solenoid	HERION		
Solenoid Valves	Mechanical	Valve	Solenoid	NUCON		
Solenoid Valves	Mechanical	Valve	Solenoid	ASCO		
Solenoid Valves	Mechanical	Valve	Solenoid	SMC		
Solenoid Valves	Mechanical	Valve	Solenoid	ROTEX		
Solenoid Valves	Mechanical	Valve	Solenoid	AVCON		
SPLIT AIR CONDITIONER	Mechanical	package	AC	HITACHI		
SPLIT AIR CONDITIONER	Mechanical	package	AC	CARRIER		
SPLIT AIR CONDITIONER	Mechanical	package	AC	LG		
SPLIT AIR CONDITIONER	Mechanical	package	AC	BLUE STAR LIMITED	Jamshedji Tata Road, Mumbai - 400 020 Phone: (91) (22) 6665 4000 Fax: (91) (22) 6665 4151 www.bluestarindia.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
SPLIT AIR CONDITIONER	Mechanical	package	AC	VOLTAS	Corporate Headquarters Voltas Limited Voltas House 'A' Block Dr. Babasaheb Ambedkar Road Chinchpokli	
SS PIPES (FOR SMALL QUANTITY 500M)	Mechanical	pipe	SS	CHOKSI		
SS PIPES (FOR SMALL QUANTITY 500M)	Mechanical	pipe	SS	RATNAMANI		
SS PIPES (FOR SMALL QUANTITY 500M)	Mechanical	pipe	SS	REMI		
SS PIPES (FOR SMALL QUANTITY 500M)	Mechanical	pipe	SS	APEX TUBES		
Stainless Steel Sheet	Mechanical	Metal	Sheet SS	JINDAL		
Stainless Steel Sheet	Mechanical	Metal	Sheet SS	SAIL		
Stainless Steel Sheet	Mechanical	Metal	Sheet SS	MINOX METAL,		
Steel	Mechanical	Plates		IPA		
Steel	Mechanical	Plates		TISCO		
Steel	Mechanical	Plates		SARTORIUS		
Steel	Mechanical	Plates		SAIL		
Steel	Mechanical	Plates		JINDAL		
Steel	Mechanical	Plates		ESSAR		
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	V.K. VALVES PVT. LTD.,	C - 106, Focal Point Extn., Jalandhar, Phone- +91-181-5051947, Pincode : 144004, Email : info@vk-utam.com, ,kp.singh@vk-utam.com,	
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	FLUIDLINE VALVES COMPANY PVT.LTD.	Mr. Balwant Mehra K.M. Trade Tower, Unit no. 905, 10th Flr Radisson Blu Hotel), Kaushambi Sec-14 Ghaziabad Phone- 0120-4242204 Pincode : 201010 Email : fluidlinedelhi@gmail.com	
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	HAWA ENGINEERS LTD.	Mr. M. N. Pathan Plot No.129, Near Kashiram Textile Mill, Narol Road, Ahmedabad Phone- 079-25320781 Pincode : 382405 Email : pathan@hawaengltd.com	MOC:Cast Steel, Cast 150#, Size for Steel gate:upto 700 NB, for Steel NRV: upto 900 NB
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	INTERVALVE POONAWALLA LTD.	212/2, HADAPSAR, OFF SOLI POONAWALLA ROAD, PUNE Phone- 020-26602630 Pincode : 411028 Email : vkathuria@poonawallagroup.com	As per remarks column.
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	Hawa Valves (India) Pvt. Ltd.	Mr. Javed A Hawa R-16 & R-954, MIDC TTC Industrial Area, Sector 8, Rabale, Thane Belapur, Navi Mumbai Phone- 022-67760139 Pincode : 400701 Email : info@hawavalves.com	For Class #300, size upto 750 NB for CCS, CSS and Duplex-SS only.
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	Sap Industries Limited	10-A, Krishna Industrial Estate Nr. Sukhrampura Post Office Nagarvel Hanuman Road Ahmedabad Phone- 9879293029 Pincode : 380023 Email : pankaj@sapvalves.com	"Up to CL. 600 for sizes 65NB to 700NB with MOC as CCS/CSS/CAS only."
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	STEEL STRONG VALVES (I) PVT.LTD.,	STEEL STRONG VALVES (I) PVT.LTD., R-241, TTC. INDUSTRIAL AREA, RABALE, NAVI MUMBAI NAVI MUMBAI Phone- 022 27690074/5536 Pincode : 400701 Email : thomas@steelstrong.com	As per remarks column.
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	FOURESS ENGINEERING (INDIA) PVT. LTD.	MAHALAXMI CHAMBERS, 22, BHULBHAJ DESAI ROAD, MUMBAI Phone- 24964400 Pincode : 400026 Email : info@fouressindia.com	
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	ATAM VALVES PVT. LTD.	1051, OUTSIDE INDUSTRIAL AREA, JALANDHAR - 144004, PUNJAB JALANDHAR Phone- 0181 5019617 Pincode : 144004 Email : marketing@atamfebi.com	(1) Carbon Steel Gate Valves & non return valves: 15 NB to 50 NB (#800) & 65 NB to 300 NB (#150) (2) Carbon Steel Globe Valves: 15 NB to 50 NB (#800) & 65 NB to 200 NB (#150)
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	WEIR BDK VALVES- A UNIT OF WEIR INDIA PVT. LTD.	DLF Tower-B, Unit No: 1212, 1214 & 1215, 12th Floor, Jasola District Centre, Sarita Vihar, New Delhi - 110044 NEW DELHI Phone- 011-40503345/46/47 Pincode : 110044 Email : Brijesh.Manchanda@mail.weir	
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	NITON VALVE INDUSTRIES PVT LTD	D-115, GHATKOPAR INDUSTRIAL ESTATE, L.B.S. MARG, GHATKOPAR(WEST), MUMBAI Phone- 25171315, 25171359 Pincode : 400086 Email : adib@nitonvalves.com	
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	VALTECH INDUSTRIES	B-5, NEW SONAL IND.ESTATE SAKI VIHAR ROAD MUMBAI Phone- Pincode : 400072 Email : farooq@valtechindustries.com	As per remarks column.
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	LEADER VALVES LTD.	Mr. Dharmvir Singh S-3, S-4, INDUSTRIAL TOWN, JALANDHAR Phone- 0181-2490666,777,888 Pincode : 144004 Email : dharmvir@leadervalves.com; info@leadervalves.com	
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	Canle Valves Private Limited	No. 52, SIDCO Industrail Estate Pollachi Main Road Coimbatore Phone- 04222679972 Pincode : 641021 Email : marketing@canlevalve.com	"a) Steel Gate Valves: Size 65 NB to 500NB, #150 & MOC as CCS/CSS. b) Steel Check Valves: Size 65 NB to 350NB, #150 & MOC as CCS/CSS. c) Steel Globe Valves: Size 65 NB to 200NB, #150 & MOC as CCS/CSS."
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	NSSL PRIVATE LIMITED	F-8, MIDC INDUSTRIAL AREA, HINGNA ROAD, NAGPUR Phone- 07104-662500 Pincode : 440016 Email : delhi@nsslindia.com	
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	OSWAL INDUSTRIES LTD	Kartar Mansion, 3rd floor, Tribhuvan Road, Off Lamington road, Mumbai Phone- 022-61448000 Pincode : 400004 Email : ravi.doshi@oswalvalves.com	As per remarks column.

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	MICON VALVES (INDIA) PVT. LTD.	7, WADEE MANZIL, 2ND FLOOR, OPP. MEMON CO-OP. BANK, 75-77E, LADY JAMSHEDJI ROAD, MAHIM, MUMBAI Phone- 24460711/0712 Pincode : 400016 Email : miconvalve@vsnl.net	As per remarks column.
STEEL GATE/GLOBE/NR VALVES(WATER SYSTEM)	Mechanical	Valve	Steel	A.V. VALVES LTD	Mr. Anil Sharma 16, INDUSTRIAL ESTATE NANHAI AGRA Phone- 05622281202 Pincode : 282 006 Email : info@avvalves.com,avvalves@sancharnet.in	
STRIP HEATER	Mechanical	Heater	Strip	DASPASS		
STRIP HEATER	Mechanical	Heater	Strip	ALCO		
STRIP HEATER	Mechanical	Heater	Strip	RACOLD		
STRIP HEATER	Mechanical	Heater	Strip	HEATCO		
STRIP HEATER	Mechanical	Heater	Strip	ESCORTS		
STRIP HEATER	Mechanical	Heater	Strip	HOTSET		
SUBMERSIBLE PUMP (DRAIN PUMP)	Mechanical	Pump		SU MOTORS		
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	DETRIVE INSTRUMENTATION & ELECTRONICS LTD.	320, TV INDUSTRIAL ESTATE, OFF.DR.A.BESANT ROAD, BEHIND GLAXO, WORLI, MUMBAI Phone- 24934125,24938403 Pincode : 400025 Email : trivtech@vsnl.com	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	Tempsens Instrument (I) Pvt Ltd	MR. V.P.RATHI/MR. HEMANT RATHI B-188A ROAD NO.5 , M.I.A UDAIPUR Phone- 09352420069 Pincode : 313003 Email : info@tempsens.com	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	Nesstech Instruments Private Limited	26/2, G Type, Global Industrial Park Near Nahuli Railway Crossing, Valvada Vapi Phone- 9920576002 Pincode : 396105 Email : sales@nesstech.co.in	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	Thermal Instrument India Pvt. Ltd.	Mr. Raghavendra M. Kulkarni 194/195, Gopi Tank Road Behind Citylight Cinema,Mahim Mumbai Phone- 09322664709 Pincode : 400016 Email : ramk@giconindia.com	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	SCIENTIFIC DEVICES (BOMBAY) PVT LTD,	Office no. 53, Shree Manoshi Complex, Plot No. 5 & 6, Sec-3, Ghansoli (East), Navi Mumbai, Phone- 9892230623, Pincode : 400 701, Email : sdbpl@vsnl.com	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	GOA INSTRUMENTS INDUSTRIES PVT.LTD.,	D2/5, Mapusa Industrial Estate, Mapusa, Goa, Phone- 09326054551, Pincode : 403507, Email : sumukh@goainstruments.com,	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	PYRO ELECTRIC INSTRUMENTS GOA PVT.LTD.	M. D. BICHU/R. M. BICHU G.B, HILL CROWN APARTMENTS, COLLEGE ROAD, MAPUSA Phone- 9326114601 Pincode : 403507 Email : priyanka.marketing@pyro-electric.in	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	GAUGE BOURDON INDIA PVT. LTD.	194/195, Gopi Tank Road, Off Pandurang Naik Marg, Mahim Mumbai, Phone- 011-41607463, Pincode : 400016, Email : gicdelhi@general-gauges.com,	
TEMP. ELEMENT	Electronics	INSTRUMENTS	Element Temp	TOSHNIWAL INDUSTRIES PVT. LTD.,	Industrial Estate, Makhapura, Ajmer, Phone- 9352009000, Pincode : 305002, Email : info@tipl.com,	
TEMPERATURE ELEMENT	Electronics	element	Temp	WAAREE INSTRUMENTS		
TEMPERATURE ELEMENT	Electronics	element	Temp	TECHNO INSTRUMENTS		
TEMPERATURE ELEMENT	Electronics	element	Temp	GAUGE BOURDON INDIA PVT. LTD.	194/195, Gopi Tank Road, Off Pandurang Naik Marg, Mahim Mumbai, Phone- 011-41607463, Pincode : 400016, Email : gicdelhi@general-gauges.com,	
TEMPERATURE ELEMENT	Electronics	element	Temp	GOA INSTRUMENTS INDUSTRIES PVT.LTD.,	D2/5, Mapusa Industrial Estate, Mapusa, Goa, Phone- 09326054551, Pincode : 403507, Email : sumukh@goainstruments.com,	
TEMPERATURE ELEMENT	Electronics	element	Temp	Tempsens Instrument (I) Pvt Ltd	MR. V.P.RATHI/MR. HEMANT RATHI B-188A ROAD NO.5 , M.I.A UDAIPUR Phone- 09352420069 Pincode : 313003 Email : info@tempsens.com	
TEMPERATURE ELEMENT	Electronics	element	Temp	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
TEMPERATURE ELEMENT	Electronics	element	Temp	Thermal Instrument India Pvt. Ltd.	Mr. Raghavendra M. Kulkarni 194/195, Gopi Tank Road Behind Citylight Cinema,Mahim Mumbai Phone- 09322664709 Pincode : 400016 Email : ramk@giconindia.com	
TEMPERATURE ELEMENT	Electronics	element	Temp	PYRO ELECTRIC INSTRUMENTS GOA PVT.LTD.	M. D. BICHU/R. M. BICHU G.B, HILL CROWN APARTMENTS, COLLEGE ROAD, MAPUSA Phone- 9326114601 Pincode : 403507 Email : priyanka.marketing@pyro-electric.in	
TEMPERATURE ELEMENT	Electronics	element	Temp	DETRIVE INSTRUMENTATION & ELECTRONICS LTD.	320, TV INDUSTRIAL ESTATE, OFF.DR.A.BESANT ROAD, BEHIND GLAXO, WORLI, MUMBAI Phone- 24934125,24938403 Pincode : 400025 Email : trivtech@vsnl.com	
TEMPERATURE ELEMENT	Electronics	element	Temp	TM TECNOMATIC SPA	MR. ANTONIO NOVIELLO/Mrs. Enrica Bazzocc VIA DELLE INDUSTRIE, 36 CREMONA Phone- 39037221574 Pincode : 26100 Email : info@tmttecnomatic.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
TEMPERATURE ELEMENT	Electronics	element	Temp	GENERAL INSTRUMENTS CONSORTIUM	Mr. Amarendra Kulkarni 194/195, Gopi Tank Road, Off. Pandurang Naik Marg, Mahim Mumbai Phone- 9323195251 Pincode : 400016 Email : amarendra@general-gauges.com	
TEMPERATURE ELEMENT	Electronics	element	Temp	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincode : 305002 Email : toshniwalprocess@gmail.com	
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	H.GURU INSTRUMENTS (SOUTH INDIA) P. LTD	32,INDUSTRIAL SUBURB YESWANTHAPUR BANGALORE Phone- 080-23370300, Pincode : 560022 Email : info@hgurusouth.com	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	H.GURU INDUSTRIES	Mr. G. D. Hazra/Mr. P. K. Mitra 10 B, HO-CHI-MINH SARANI, KOLKATA Phone- 033 2282 2463 / 1637 Pincode : 700071 Email : mguru@vsnl.net	
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	FORBES MARSHALL (HYD) LTD.	MR SAILESH PATALAY/MR. M K SRINIVASAN PLOT NO.A-19/2, & T-4/2, IDA, NACHARAM, HYDERABAD Phone- 9849913704 Pincode : 500 076 Email : mksrinivasan@forbesmarshall.com	
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	GOA THERMOSTATIC INSTRUMENTS PVT.LTD.	FLAT - B , GF, HILL CROWN APTS., COLLEGE ROAD, MAPUSA Phone- Pincode : 403525 Email : gtlworks@pyro-electric.in	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	H.GURU INDUSTRIES	Mr. G. D. Hazra/Mr. P. K. Mitra 10 B, HO-CHI-MINH SARANI, KOLKATA Phone- 033 2282 2463 / 1637 Pincode : 700071 Email : mguru@vsnl.net	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincode : 305002 Email : toshniwalprocess@gmail.com	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	BUDENBERG GAUGE CO.LTD.		
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	A.N. INSTRUMENTS PVT. LTD.	MARKETING DIVISION, 5th FLOOR, 59-B, CHOWRINGHEE ROAD, KOLKATA Phone- 24757784,22472509 Pincode : 700020 Email : anidel@bol.net.in	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	DETRIVE INSTRUMENTATION & ELECTRONICS LTD.	320, TV INDUSTRIAL ESTATE, OFF.DR.A.BESANT ROAD, BEHIND GLAXO, WORLI, MUMBAI Phone- 24934125, 24938403 Pincode : 400025 Email : trivtech@vsnl.com	
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	Baumer Technologies India Pvt. Ltd.	Mr. Shyam Warilani/Mr. V Suresh Babu 36, DAMJI SHAMJI INDUSTRIAL COMPLEX, OFF.-MAHAKALI CAVES ROAD, ANDHERI(E) MUMBAI Phone- +91 99589 25151 Pincode : 400093 Email : sales.in@baumer.com	
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	PRECISION MASS PRODUCTS PVT. LTD.	Mr. Nishit Patel/Mr. Anuj Verma Plot No.2306, Phase II, GIDC Chhatral Kalol Phone- 9999464663 Pincode : 382729 Email : sales@precisionmass.com	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	GOA INSTRUMENTS INDUSTRIES PVT.LTD.,	D2/5, Mapusa Industrial Estate, Mapusa, Goa, Phone- 09326054551, Pincode : 403507, Email : sumukh@goainstruments.com,	
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	GAUGE BOURDON INDIA PVT. LTD.	194/195, Gopi Tank Road, Off Pandurang Naik Marg, Mahim Mumbai, Phone- 011-41607463, Pincode : 400016, Email : gicdelhi@general-gauges.com,	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	PRECISION MASS PRODUCTS PVT. LTD.	Mr. Nishit Patel/Mr. Anuj Verma Plot No.2306, Phase II, GIDC Chhatral Kalol Phone- 9999464663 Pincode : 382729 Email : sales@precisionmass.com	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	ASHCROFT INDIA PVT LTD.		
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	WIKA		
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	GOA INSTRUMENTS INDUSTRIES PVT.LTD.,	D2/5, Mapusa Industrial Estate, Mapusa, Goa, Phone- 09326054551, Pincode : 403507, Email : sumukh@goainstruments.com,	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	PYRO ELECTRIC INSTRUMENTS GOA PVT.LTD.	M. D. BICHU/R. M. BICHU G.B, HILL CROWN APARTMENTS, COLLEGE ROAD, MAPUSA Phone- 9326114601 Pincode : 403507 Email : priyanka.marketing@pyro-electric.in	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	H.GURU INDUSTRIES	Mr. G. D. Hazra/Mr. P. K. Mitra 10 B, HO-CHI-MINH SARANI, KOLKATA Phone- 033 2282 2463 / 1637 Pincode : 700071 Email : mguru@vsnl.net	
TEMPERATURE GAUGE	Electronics	INSTRUMENTS	Gauge Temperature	H.GURU INDUSTRIES	Mr. G. D. Hazra/Mr. P. K. Mitra 10 B, HO-CHI-MINH SARANI, KOLKATA Phone- 033 2282 2463 / 1637 Pincode : 700071 Email : mguru@vsnl.net	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	WAREE INSTRUMENTS		
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	GOA THERMOSTATIC INSTRUMENTS PVT.LTD.	FLAT - B , GF, HILL CROWN APTS., COLLEGE ROAD, MAPUSA Phone- Pincode : 403525 Email : gtlworks@pyro-electric.in	
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	FORBES MARSHAL PVT. LTD.	MR SAILESH PATALAY/MR. M K SRINIVASAN PLOT NO.A-19/2, & T-4/2, IDA, NACHARAM, HYDERABAD Phone- 9849913704 Pincode : 500 076 Email : mksrinivasan@forbesmarshall.com	

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
TEMPERATURE GAUGE	Electronics	Instrument	Gauge Temp	GAUGE BOURDON INDIA PVT. LTD.	194/195, Gopi Tank Road, Off Pandurang Naik Marg, Mahim Mumbai, Phone- 011-41607463, Pincode : 400016, Email : gjcdelhi@general-gauges.com,	
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	SOR INC.	LARRY DEGARMO/Avdhesh Chandra, 14685 W. 105TH STREET LENEXA Phone- 09810905139, Pincode : 66215 Email : Ldegarmo@sorinc.com, avdhesh@sherman-india.com,	
TEMPERATURE SWITCH	Electronics	INSTRUMENTS	Switch Temp	SOR INC.	LARRY DEGARMO/Avdhesh Chandra, 14685 W. 105TH STREET LENEXA Phone- 09810905139, Pincode : 66215 Email : Ldegarmo@sorinc.com, avdhesh@sherman-india.com,	
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	VASU		
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincode : 305002 Email : toshniwalprocess@gmail.com	
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	SWITZER PROCESS INSTRUMENTS PVT. LTD.	Mr. V S Jayaprakash, 128, SIDCO North Phase, Ambattur Estates CHENNAI Phone- 044-26252017/2018 Pincode : 600050 Email : sales@switzerprocess.co.in	
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	DRESSER INDUSTRIES INC.	Mr. Nishit Patel/Mr. Anuj Verma Plot No.2306, Phase II, GIDC Chhatral Kalol Phone- 02764-233682 Pincode : 382729 Email : Nishit.patel@ashcroftindia.com	
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	DK INSTRUMENTS		
TEMPERATURE SWITCH	Electronics	INSTRUMENTS	Switch Temp	DRESSER INDUSTRIES INC.	Mr. Nishit Patel/Mr. Anuj Verma Plot No.2306, Phase II, GIDC Chhatral Kalol Phone- 02764-233682 Pincode : 382729 Email : Nishit.patel@ashcroftindia.com	
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	SEIMENS		
TEMPERATURE SWITCH	Electronics	INSTRUMENTS	Switch Temp	INDFOS (INDIA) LIMITED	MR.L.C.VENKATRANGAN/MR.B.KANNAN New No.17, II Floor, Adwave Towers, Dr.Sevalia Shivaji Salai, T.Nagar Chennai Phone- +91 44 24353407 Pincode : 600017 Email : delhi@indfos.com	
TEMPERATURE SWITCH	Electronics	Instrument	Switch Temp	INDFOS INDUSTRIES LIMITED	B-20-21, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD Phone- 0120-2712016 Pincode : Email : mktg@indfos.com	
TEMPERATURE SWITCH	Electronics	INSTRUMENTS	Switch Temp	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincode : 305002 Email : toshniwalprocess@gmail.com	
TEMPERATURE SWITCH	Electronics	INSTRUMENTS	Switch Temp	SWITZER PROCESS INSTRUMENTS PVT. LTD.	Mr. V S Jayaprakash, 128, SIDCO North Phase, Ambattur Estates CHENNAI Phone- 044-26252017/2018 Pincode : 600050 Email : sales@switzerprocess.co.in	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	TOSHNIWAL BROTHERS PVT.LTD.	WORKS:TOSHNIWAL IND.PVT.LTD, INDUSTRIAL ESTATE MAKHUPURA, AJMER Phone- 441171 Pincode : 305002 Email : toshniwalprocess@gmail.com	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	V. AUTOMAT & INSTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL.AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	EMERSON PROCESS MANAGEMENT CHENNAI LIMITED	147, KARAPAKKAM VILLAGE, CHENNAI Phone- 23722184, 23716242 Pincode : 600096 Email : jatinder.singh@emerson.com	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	SIEMENS LIMITED	Dr. Armin Bruck/Sandeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	YOKOGAWA	PLOT NO.96, ELECTRONICS CITY COMPLEX, HOSUR ROAD, BANGALORE, Phone- 080-41586000, Pincode : Email : uday.shankar@in.yokogawa.com,	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	MOORE		
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	Honeywell Automation India Limited	Mr. Ritwij Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : rajesh.chaudhary@honeywell.com	
TEMPERATURE TRANSMITTER	Electronics	Transmitter	Temp	SMART INSTRUMENTS LTD, BRAZIL	Agents: Digital Electronic Ltd. 74/11 'C' Cross Road MIDC Andheri (East) MUMBAI Phone- 28208477 Pincode : 400093 Email : corp@delbby.rpgms.ems.vsnl.net.in	
TERMINAL BOX	Mechanical	TERMINAL BOX		SUPPLIERS/SUB-VENDORS		
THERMOSTATS	Electrical	Thermostat	Normal	RANCO		
THERMOSTATS	Electrical	Thermostat	Normal	PENN		
THERMOSTATS	Electrical	Thermostat	Normal	JHONSON CONTROL		
THERMOSTATS	Electrical	Thermostat	Normal	DANFOSS		
THERMOSTATS	Electrical	Thermostat	Normal	Honeywell Automation India Limited	Mr. Ritwij Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : rajesh.chaudhary@honeywell.com	



Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
THERMOSTATS	Electrical	Thermostat	Normal	INDFOS INDUSTRIES LIMITED	B-20-21, INDUSTRIAL AREA, MEERUT ROAD, GHAZIABAD Phone- 0120-2712016 Pincode : Email : mktg@indfos.com	
THERMOSTATS	Electrical	Thermostat	Normal	RANUTROL		
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	Moore Industries International Inc		
TRANSMITTERS	Electronics	Transmitter		Moore Industries International Inc.	Leonard W. Moore/ Matt Moren 16650 Schoenborn St. North Hills Phone- +1 818 830 5548 Pincode : 91343 Email : mmoren@miinet.com	
TRANSMITTERS	Electronics	Instrument	Transmitter	NIVO CONTROLS PVT. LTD.		
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	NIVO CONTROLS PVT. LTD.		
TRANSMITTERS	Electronics	Instrument	Transmitter	Moore Industries International Inc		
TRANSMITTERS	Electronics	Transmitter		TOSHNIWAL INDUSTRIES PVT. LTD.,	Industrial Estate, Makhupura, Ajmer, Phone- 9352009000, Pincode : 305002, Email : info@tipl.com,	
TRANSMITTERS	Electronics	Instrument	Transmitter	LAXONS AUTOMATION		
TRANSMITTERS	Electronics	Instrument	Transmitter	YIL		
TRANSMITTERS	Electronics	Instrument	Transmitter	TOSHNIWAL INDUSTRIES PVT. LTD.,	Industrial Estate, Makhupura, Ajmer, Phone- 9352009000, Pincode : 305002, Email : info@tipl.com,	
TRANSMITTERS	Electronics	Transmitter		SMART INSTRUMENTS LTD, BRAZIL	Agents: Digital Electronic Ltd. 74/11 'C' Cross Road MIDC Andheri (East) MUMBAI Phone- 28208477 Pincode : 400093 Email : corp@delbby.rpgms.ems.vsnl.net.in	LD-301 & T-301 TRANSMITTER FROM M/S SMART EQUIPMENTS BRAZIL
TRANSMITTERS	Electronics	Transmitter		Honeywell Automation India Limited	Mr. Ritwij Kulkarni 917, INTERNATIONAL TRADE TOWER, NEHRU PLACE, NEW DELHI Phone- 9890200584 Pincode : 110019 Email : rajesh.chaudhary@honeywell.com	
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	TOSHNIWAL INDUSTRIES PVT. LTD.,L		
TRANSMITTERS	Electronics	Transmitter		ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	PRESSURE TRANSMITTER, DP TRANSMITTER and TEMP TRANSMITTER
TRANSMITTERS	Electronics	Instrument	Transmitter	FUJI		
TRANSMITTERS	Electronics	Instrument	Transmitter	FISHER-ROSEMOUNT		
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
TRANSMITTERS	Electronics	Transmitter		Endress + Hauser (India) Pvt. Ltd.,	Mr. Prakash Vaghela 215-216, DLF Tower 'A', Jasola District Centre, New Delhi, Phone- 9717593001, Pincode : 110025, Email : prakash.vaghela@in.endress.com,	"Except Displacement Type Level Transmitters"
TRANSMITTERS	Electronics	Instrument	Transmitter	Endress + Hauser (India) Pvt. Ltd.,	Mr. Prakash Vaghela 215-216, DLF Tower 'A', Jasola District Centre, New Delhi, Phone- 9717593001, Pincode : 110025, Email : prakash.vaghela@in.endress.com,	
TRANSMITTERS	Electronics	Instrument	Transmitter	V. AUTOMAT & INSTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	
TRANSMITTERS	Electronics	Transmitter		EMERSON PROCESS MANAGEMENT (INDIA) PVT.LTD.	Mr. Amit Paithankar/Vikram Raj Singh 206-210,BALARAMA BUILDING 2ND FLR. BANDRA EAST MUMBAI Phone- 9619121500 Pincode : 400051 Email : vikramraj.singh@emerson.com	
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	V AUTOMATION & INST		
TRANSMITTERS	Electronics	Instrument	Transmitter	ABB India Limited	Mr. Tommy Andreson/Mr.Naveen Maikhuri PLOT NO.79, STREET NO.17 VADODARA Phone- 9958188524 Pincode : 390013 Email : rizwan.siddiqui@in.abb.com	
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	EMERSON PROCESS MANAGEMENT (INDIA) PVT.LTD.		
TRANSMITTERS	Electronics	Instrument	Transmitter	EMERSON PROCESS MANAGEMENT (INDIA) PVT.LTD.	147, KARAPAKKAM VILLAGE, CHENNAI Phone- 23722184, 23716242 Pincode : 600096 Email : jatinder.singh@emerson.com	
TRANSMITTERS	Electronics	Transmitter		NIVO CONTROLS PVT. LTD.	Mr. Praveen Toshniwal 104-115, Electronic Complex, Indore Phone- 0731-4081305 Pincode : 452010 Email : sales@nivocontrols.com	For Capacitance type only
TRANSMITTERS	Electronics	Transmitter		V. AUTOMAT & INSTRUMENTS (P) LTD.	Mr. R. K. BASSI/Mr. PRAVEEN KUMAR F-61, OKHLA INDL AREA, PH-1 NEW DELHI Phone- 9810005826 Pincode : 110 020 Email : sales@vautomat.com	a)DISPLACEMENT TYPE TRANSMITTERS. b)PRESSURE AND DP TRANSMITTERS
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	Honeywell Automation India Limited		
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	Endress + Hauser (India) Pvt. Ltd		
TRANSMITTERS	Electronics	Transmitter		YOKOGAWA INDIA LIMITED,	PLOT NO.96, ELECTRONICS CITY COMPLEX, HOSUR ROAD, BANGALORE, Phone- 080-41586000, Pincode : Email : uday.shankar@in.yokogawa.com,	
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	SBEM PVT. LTD.		
TRANSMITTERS	Electronics	Instrument	Transmitter	TAYLOR		
TRANSMITTERS	Electronics	Instrument	Transmitter	BIRLA KENT TAYLOR		
TRANSMITTERS	Electronics	Transmitter		SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	FOR CAPACITANCE TYPE.
TRANSMITTERS	Electronics	Instrument	Transmitter	SBEM PVT. LTD.	MR.N.K. BEDARKAR/MR. VISHWANATH KARANDIK 39, ELECTRONIC CO.OP. ESTATE, PUNE SATARA ROAD PUNE, Phone- 912041030100 Pincode : 411009 Email : newdelhi@sbem.co.in	
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	SIEMENS		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
TRANSMITTERS	Electronics	Instrument	Transmitter	SIEMENS LIMITED	Dr. Armin Bruck/Sandeeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
TRANSMITTERS	Electronics	Instrument	Transmitter	SIEMENS LIMITED	Dr. Armin Bruck/Sandeeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	SIEMENS LIMITED		
TRANSMITTERS	Electronics	Instrument	Transmitter	BLISS ANAND PVT. LTD.	Mr. Vikas Anand/ Mr.RGRajan 92B & 93 B , IMT MANESAR Gurgaon Phone- 0124-4366000 TO 9 Pincode : 122001 Email : sales@blissanand.com	
TRANSMITTERS	Electronics	Instrument	Transmitter	BRISTOL BABCOCK		
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	YOKOGAWA INDIA LIMITED,		
TRANSMITTERS	Electronics	Transmitter		Pune Techrol Pvt. Ltd.	N.P.Khatan/Sudhakar Badiger S-18, MIDC Bhosari, Pune Phone- 9850560042 Pincode : 411 026 Email : ho@punetechrol.com	Only for capacitance Type Level Transmitter
TRANSMITTERS	Electronics	Instrument	Transmitter	Honeywell Automation India Limited		
TRANSMITTERS	Electronics	Instrument	Transmitter	SMART INSTRUMENTS LTD, BRAZIL	Agents: Digital Electronic Ltd. 74/11 'C' Cross Road MIDC Andheri (East) MUMBAI Phone- 28208477 Pincode : 400093 Email : corp@delbby.rpgms.ems.vsnl.net.in	
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	Pune Techrol Pvt. Ltd		
TRANSMITTERS	Electronics	Transmitter		SIEMENS LIMITED	Dr. Armin Bruck/Sandeeep Mathur 130, Pandurang Budhkar Marg Worli Mumbai Phone- 0124 383 7377 Pincode : 400018 Email : ankit.varshney@siemens.com	
TRANSMITTERS	Electronics	Instrument	Transmitter	Pune Techrol Pvt. Ltd.	N.P.Khatan/Sudhakar Badiger S-18, MIDC Bhosari, Pune Phone- 9850560042 Pincode : 411 026 Email : ho@punetechrol.com	
TRANSMITTERS	Electronics	Instrument	Transmitter	YOKOGAWA INDIA LIMITED,	PLOT NO.96, ELECTRONICS CITY COMPLEX, HOSUR ROAD, BANGALORE, Phone- 080-41586000, Pincode : Email : uday.shankar@in.yokogawa.com,	
TRANSMITTERS	Electronics	Instrument	Transmitter	PANAM ENGINEERS		
TRANSMITTERS	Electronics	Transmitter		PANAM ENGINEERS	Mr. Santosh Shukla 203, Jaisingh Business,Parsiwada, Sahar road,Andheri(East), Mumbai, Phone- 9892179529, Pincode : 400099, Email : santosh@panamengineers.com,	For Pressure and Diff. Pressure transmitter
TRANSMITTERS	Electronics	INSTRUMENTS	TRANSMITTERS	SMART INSTRUMENTS LTD		
ULTRASONIC FLOW METERS	Electronics	Instrument	Meter Flow Ultrasonic	Rockwin Flowmeter India Pvt. Ltd.	B-24, Site-IV, Sahibabad Industrial Area Ghaziabad, Phone- 9810129687 Pincode : 201010, Email : amiya@rockwin.com	
ULTRASONIC FLOW METERS	Electronics	Instrument	Meter Flow Ultrasonic	Adept Fluidyne Pvt. Ltd.	Vinayak Gadre Plot No 4,S.No.17/1-B Kothrud Industrial Estate Pune Phone- 020 25464551 Pincode : 411038 Email : info@adeptfluidyne.com	
ULTRASONIC FLOW METERS	Electronics	Instrument	Meter Flow Ultrasonic	FLEXIM Flexible Industriemesstechnik GmbH	Boxberger Str., 4, Berlin Berlin Phone- 0049 30 93 66 76 60 Pincode : 12681 Email : info@flexim.de	
ULTRASONIC FLOW METERS	Electronics	Instrument	Meter Flow Ultrasonic	NIVUS GMBH	Mr. Marcus Fischer Im Taele 2, D - 75031 Eppingen Phone- 00491712233770 Pincode : Email : carolin.schuster@nivus.com	
ULTRASONIC FLOW METERS	Electronics	Instrument	Meter Flow Ultrasonic	Electronet Equipments Pvt Ltd.	Plot No. 84, 85 & 86, Tiny Industrial Estate Kondhwa Budruk, Pune Phone- 020-2026932039 Pincode : 411048 Email : ho@eeplindia.com	
ULTRASONIC FLOW METERS	Electronics	Instrument	Meter Flow Ultrasonic	FLASH FORGE PVT LTD	Mr. Gautam Makker, 503, 'A'-wing, Deelphi, Orchard Avenue Road, Powai Mumbai Phone- 022-42784300 Pincode : 400076 Email : hemendrapatil@f-f.co.in	
V- BELT	Mechanical	belt	V	FENNER		
V- BELT	Mechanical	belt	V	DUNLOP		
VAPOUR ABSORBTION MACHINE	Mechanical	VAM		KIRLOSKAR BROTHERS LTD.	KIRLOSKAR PRESS COMPOUND, UDYOG BHAWAN,TILAK ROAD, PUNE Phone- 2447550,240672 Pincode : 411002 Email : kblin@kbl.co.in; gosain@del.kbl.co.in	
VAPOUR ABSORBTION MACHINE	Mechanical	VAM		THERMAX LTD.	Anil Oza (Head Sales and Market), Environmental House, 3rd Floor, B Wing, Bhosari MIDC, Bhosari, PUNE Phone- 9823940318, Pincode : 411026 Email : msogani@thermaxindia.com	
VAPOUR ABSORBTION MACHINE	Mechanical	VAM		VOLTAS	Corporate Headquarters Voltas Limited Voltas House 'A' Block Dr. Babasaheb Ambedkar Road Chinchpokli	
VVVF/VFD / INVERTOR (V3F)	Electronics	Inverter		YASKAWA		
VVVF/VFD / INVERTOR (V3F)	Electronics	Inverter		SCHNIEDER		
VVVF/VFD / INVERTOR (V3F)	Electronics	Inverter		FUJI ELECTRIC		
VVVF/VFD / INVERTOR (V3F)	Electronics	Inverter		SIEMENS		
VVVF/VFD / INVERTOR (V3F)	Electronics	Inverter		MITSUBISHI ELECTRIC		
VVVF/VFD / INVERTOR (V3F)	Electronics	Inverter		ABB INDIA LIMITED	MR. RAJIV GOVIL 14, MATHURA ROAD, FARIDABAD Phone- 09971085678 Pincode : 121003 Email : vipin.swami@in.abb.com	
VVVF/VFD / INVERTOR (V3F)	Electronics	Inverter		Toshiba		
Y / POT STRAINER	Mechanical	Strainer	Pot	OTOKLIN GLOBAL BUSINESS LTD		
Y / POT STRAINER	Mechanical	Strainer	Pot	GRAND PRIX ENGINEERING PVT. LTD.	Mr. B.S. Dhillon, Plot No. 82, Sector 25, Faridabad Phone- 0129-4097716 Pincode : 121004 Email : bsdhillon@grandprixfilters.com	
Y / POT STRAINER	Mechanical	Strainer	Pot	GREAVES COTTON		

Package Name	Generic classification	Sub-Class	Type	Supplier Name	Supplier Communication Address	Tech Limit
Y / POT STRAINER	Mechanical	Strainer	Pot	GUJARAT OTOLIFT		
Y / POT STRAINER	Mechanical	Strainer	Pot	BHATIA ENGINEERING CO.	6, DSIDC, JHILMIL INDUSTRIAL AREA, G.T.ROAD, SHAHDARA. DELHI Phone- 22583488, 55258066 Pincode : 110095 Email : sales@strainwell.com	
Y / POT STRAINER	Mechanical	Strainer	Pot	SUNGOV ENGINEERING		
Y / POT STRAINER	Mechanical	Strainer	Pot	DS ENGG		
Y / POT STRAINER	Mechanical	Strainer	Pot	MULTITEX FILTRATION ENGINEERS LIMITED	FILTRATION DIVISION, 217, HANS BHAWAN, BAHADURSHAH ZAFAR MARG, NEW DELHI Phone- 23378015/0923/0479 Pincode : 110002 Email : rajesh@multitexfilters.com	
Y / POT STRAINER	Mechanical	Strainer	Pot	SANT VALVES		
Y / POT STRAINER	Mechanical	Strainer	Pot	SAROJINI ENTERPRISE		
Y / POT STRAINER	Mechanical	Strainer	Pot	JAYPEE		
Y / POT STRAINER	Mechanical	Strainer	Pot	FILTRATION ENGINEERS (I) PVT. LTD.	Plot No. W-62 (B) T.T.C Industrial Area MIDC , Rabale Navi Mumbai Phone- 02227608501 Pincode : 400701 Email : sales@feipl.com	

**AIR CONDITIONING SYSTEM****LIST OF MAKES OF SUB-VENDOR ITEMS**

<b>Sl. NO.</b>	<b>ITEM / EQUIPMENT</b>	<b>SUB SUPPLIER</b>
1	SCREW CHILLER	YORK / TRANE / CARRIER / KIRLOSKAR / DUNHAM BUSH / MCQUAY (DAIKIN) / BLUE STAR / VOLTAS
2	VAPOUR ABSORBTION MACHINE	VOLTAS / THERMAX
3	PRECISION PACKAGE UNITS	STULZ / UNIFLAIR / EMERSON / BLUEBOX / CLIMADENTA
4	PACKAGE UNIT	VOLTAS / BLUE STAR / CARRIER
5	SPLIT AIR CONDITIONER	VOLTAS / BLUE STAR / CARRIER / HITACHI / LG
6	AIR HANDLING UNITS	VOLTAS / BLUE STAR / ZECO / CARRYAIRE(FLAKT) / EDGETECH / ETHOS / SYSTEM AIR / WAVES AIRCON
7	AHU FAN (CENTRIFUGAL FAN)	CB.DOCTOR / FLAKT / KRUGER / NICOTRA / COMEFRI / MARATHON / PATEL AIR
8	CHILLED & CONDENSER WATER PUMP	BEST & CROMPTON / JYOTI / SAM TURBO / KBL / KSB / M&P / VOLTAS / BEACON-WEIR / WORTHINGTON / FLOWMORE / SULZER / BHARAT PUMPS & COMPRESSORS LTD / FLOWSERVE INDIA CONTROL PVT LTD / V-FLOW PUMPS & SYSTEMS CO
9	COOLING TOWER	PAHARPUR / MIHIR / PCT / FLOWTECH / BELL
10	INDUCTION MOTORS (LT)	SIEMENS / ABB / CGL / MARATHON / KEC / BHARAT BIJLEE / NGEF / JYOTI / LHP
11	AIR FILTER	PUROLATOR / FMI / ANFILCO / TENACITY / JOHN FOWLER / SPECTRUM / AIR TECH / PUROMATIC
12	AXIAL FANS / F.A. FANS	FLAKT / KHAITAN / PATEL / NICOTRA / SARLA / KRUGER / MARATHON / C DOCTOR
13	INSULTATION MATERIAL	BEARDSHELL / K-FLEX / PARAMONT/ ARMAFLEX / SUPREME / LLOYDS / UP TWIGA /AEROCELL
14	BALANCING VALVE	ADVANCE
15	BUTTERFLY VALVE	AUDCO / FOURESS / INTER VALVE / BDK / WEIR BDK / TYCO / CRANE PROCESS / KEYSTONE
16	NON RETURN VALVE	LEADER / H.SARKAR / FLUID LINE / HI -TECH / CRESENT / A V VALVES / BANKIM & COMPANY / SHIVADURGA
17	GATE/GLOBE VALVES	CRESENT / BDK / AUDCO / FOURESS / KIRLOSKAR / SANT / BOMBAY METAL & ALLOYS / BANKIM / LEADER / H SARKAR / AV VALVES / VENUS PUMPS AND ENGG/SAMSON CONTROLS PVT. LTD/INSTRUMENTATION LTD./ Koso India Private Limited,



## AIR CONDITIONING SYSTEM

### LIST OF MAKES OF SUB-VENDOR ITEMS

18	3 WAY MIXING VALVE WITH ACTUATING MOTOR	SIEMENS BUILDING TECHNOLOGY /JOHNSON / BELIMO / HONEYWELL / RAPID CONTROL / ALC
19	MOTORIZED BUTTERFLY VALVE	ANERGY / ADVANCE / BELIMO / JOHNSON / HONEYWELL / SIEMENS
20	Y / POT STRAINER	MULTITEX / GREAVES COTTON / JAYPEE / SANT / OTOKLIN / GRAND PRIX / GUJARAT OTOLIFT / DS ENGG / SAROJINI ENTERPRISE / BHATIA ENGINEERING / FILTERATION ENGINEERS INDIA PVT LTD / SUNGOV ENGINEERING
21	PIPING - ERW	SURYA ROSHNI / TISCO / DADU PIPES / INDUS TUBE / WELSPUN / TATA / BST / JINDAL / SAIL
22	PIPING - CS SEAMLESS (ASTM A 106)	ISMT / MAHARASHTRA SEAMLESS
23	GI SHEETS FOR DUCTING	TISCO / INDIAN IRON & STEEL CO LTD. / RASHITRYA ISPAT NIGAM LTD. / ESSAR/ ISPAT INDUSTRIES / JSW STEEL / LLOYDS STEEL / BHUSHAN / TATA / SAIL / JINDAL
24	FIRE DAMPER	TSC / CARRYAIRE / RAVISTAR (SYSTEM AIR )
25	GRILL/DIFFUSER/VOLUME CONTROL DAMPER	AIR FLOW/ TSC /AIR MASTER/ CARYAIRE/RAVI STAR (SYSTEM AIR)
26	STRIP HEATER	ESCORTS / RACOLD / DASPASS/ ALCO/ HEATCO / HOTSET
27	PAN HUMIDIFIER	RAPID COOL/ HOTSET /ALCO
28	RELIEF / PURGE VALVE	BRASSOMATIC
29	THERMOSTATS	HONEYWELL / RANCO / PENN / DANFOSS / INDFOSS / JHONSON CONTROL /RANUTROL
30	HUMID STAT	JHONSON CONTROL / HONEYWELL / PENN
31	ANTI FREEZE THERMOSTAT	RANCO / HONEYWELL / PENN / DANFOSS / INDFOSS
32	FLOW SWITCH	SWITZER / LEVCON / DK INSTRUMENT / SBEM / V. AUTOMATE/ SIEMENS
33	FLOW METER	EUREKA / INSTRUMENTATION ENGINEERS PVT LTD / PLACKA /TRAC / FLOW STAR/ SCIENTIFIC DEVICE
34	RH SENSOR/TEMP SENSOR	HONEY WELL /JOHNSON /SIEMENS / GENERAL INSTRUMENTS
35	PLC BASED PANEL	SIEMENS / SCHENIEDER / ROCKWELL / GE INTELLIGENT / HONEYWELL AUTOMATION / ABB/ MITSUBISHI ELECTRIC
36	OWS / PC	HP / COMPAQ / DELL / HCL / IBM / LENOVO
37	PRINTER	HP / CANON / EPSON / XEROX / IBM / LEXMARK
38	UPS	HITACHI-HIREL / APC / DELTA / EMERSON / DB POWER / APLAB
39	FIBRE OPTIC CABLE	BIRLA ERICSON / FINOLEX / AKSH FIBRE
40	ANNUNCIATOR FOR PANEL	ICC / PECON/ PROCON
41	LT ADAPTER BOX FOR AL TO CU CABLE CONVERTOR	CONTROL DEVICE / SYSTEM POWER CONTROL / JACKSON / UNILEC / ELECTRIC ALLIED PRODUCT
42	METERING PUMP	SHAPO TOOLS / VK PUMPS
43	WATER SOFTENING PLANT	THERMAX / ION EXCHANGE / DOSI ION
44	PRESSURE TRANSMITTER	ABB / ENDRESS + HAUSER (INDIA) / MOORE / SIEMENS / SMART INSTRUMENT BRAZIL / SBEM /



## AIR CONDITIONING SYSTEM

### LIST OF MAKES OF SUB-VENDOR ITEMS

		TOSHNIWAL / V. AUTOMAT / EMERSON / YOKOGAWA / HONEYWELL / FUJI
45	TEMPERATURE TRANSMITTER	ABB / ENDRESS + HAUSER (INDIA) / MOORE / SIEMENS / SMART INSTRUMENT BRAZIL / SBEM / TOSHNIWAL / V. AUTOMAT / EMERSON / YOKOGAWA / HONEYWELL
46	ROTAMETER	CHEMTROLS SAMIL / EUREKA IND / IL / TRANSDUCERS AND CONTROL
47	BATTERY CHARGER	AMARARAJA/ CHHABI ELECTRICAL / DUBAS ENGG. / HBL POWER SYSTEM / STATCON / CALDYNE
48	BATTERY (NI -Cd)	HBL POWER / AMCO SAFT / SAFT
<b>NOTE</b>		
NOTES:  1. THE SUB VENDOR LIST ABOVE IS INDICATIVE ONLY AND IS SUBJECT TO BHEL AND CUSTOMER APPROVAL DURING DETAILED ENGINEERING STAGE WITHOUT ANY COMMERCIAL & DELIVERY IMPLICATION TO BHEL. BIDDER TO PROPOSE SUB VENDOR WITHIN 4 WEEKS OF PLACEMENT OF LOI. THEREAFTER NO REQUEST FOR ADDITIONAL SUB-VENDOR SHALL BE ENTERTAINED. 2. THE INSPECTION CATEGORY WILL BE INTIMATED AFTER AWARD OF CONTRACT BY BHEL/CUSTOMER. HOWEVER THE SAME WILL BE ADHERED BY THE BIDDER WITHOUT ANY COMMERCIAL AND DELIVERY IMPLICATION TO BHEL/ CUSTOMER. 3. PLEASE ALSO REFER RESPECTIVE SUB-SECTION C-3, C-4 & C-5 FOR ELECTRICAL, C&I AND HANDLING RELATED EQUIPMENT LIST OF MAKE.		



**5x800MW YADADRI TPS  
AIR CONDITIONING SYSTEM  
MANDATORY SPARE LIST**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : I**

**SUB-SECTION : E**

**REV 00**

**SHEET 1 OF 1**

**ANNEXURE-II  
MANDATORY SPARE LIST**

<b>NAME OF PROJECT:</b>		<b>5X800 MW TSGENCO YADADRI TPS</b>	
<b>NAME OF PACKAGE:</b>		<b>AIR CONDITIONING SYSTEM</b>	
<b>TECHNICAL SPECIFICATION:</b>		<b>PE-TS-417-553-A001</b>	
S. No.	DESCRIPTION	UNIT	Qty
	EQUIPMENT / PACKAGE		
1	<b>Air Conditioning System</b>		
1.1	Screw Chiller ( for each type and rating)		
1.1.1	Bearing for the compressor	Set	2 Sets
1.1.2	Gaskets as applicable for Condenser & Chiller Heads	Set	2 Sets for each category
1.2	Centrifugal Pump (for each type and rating)	%	10% of one Condenser
1.2.1	Bearings for each pump and motor	Set	4 Sets for each category
1.2.2	Mechanical seal,wearing rings and lantern rings	Set	2 Sets for each category
1.3	Cooling Tower (for each type and rating)		
1.3.1	Spray nozzles	Set	20% of one Tower
1.3.2	Set of fills	Set	20% of one Tower
1.3.3	Bearings for each fan and motor	Set	4 sets
1.4	Refrigerant & Oil		
1.4.1	Refrigerant gas in a non-returnable cylinder	Nos.	30% of installed charge
1.4.2	Empty cylinders of 68Kg capacity to hold the charge of the highest capacity system	-	As required to suit the above
1.4.3	Filter oil in sealed tins for the full set for 6 operations of cleaning	-	As required
1.5	Air Handling Units (for each rating )		
1.5.1	Bearings for each AHU blower & motor	Set	2 Sets for each category
1.5.2	V-Belts	Set	4 Sets for each category
1.5.3	Filters of each type	Set	4 Sets for each category
1.6	Centrifugal fans (For each type and rating)		
1.6.1	Bearings for fan & motor	Set	4 Sets for each category
1.6.2	V-belts	Set	2 Sets for each category
1.6.3	Vibration Isolators	Set	2 Sets
1.7	<b>Precision Air Conditioners</b>		
1.7.1	Vibration Isolators	Set	2 Sets for each category
1.7.2	Filters	Set	2 sets for each PAC unit
1.7.3	Bearings	Set	2 sets for each rating of PAC unit (both for condenser & Indoor Unit)
1.7.4	Condenser fan impeller	Set	2 sets for each PAC unit
1.7.5	Expansion valve	Set	2 sets for each rating of PAC unit
1.7.6	Any other spare parts recommended by the Manufacturer	Set	2 sets for each rating of PAC unit
1.8	<b>Split Air Conditioners</b>		
1.8.1	Fan-motor bearing for outdoor unit	Set	2 sets for each rating of SAC unit
1.8.2	Vibration Isolators	Set	2 sets each for outdoor unit & Indoor unit for each SAC unit
1.8.3	Filter	Set	2 sets for each SAC unit
1.8.4	Expansion valve	Set	2 sets for each rating of SAC unit
1.8.5	Any other spare parts recommended by the Manufacturer	-	As recommended by the Manufacturer
1.8	<b>Cassette AC unit</b>		
1.9.1	Fan-motor bearing for outdoor unit	Set	2 sets for each rating
1.9.2	Vibration Isolators	Set	2 sets each for outdoor unit & Indoor unit for each unit
1.9.3	Filter	Set	2 sets for each unit
1.9.4	Expansion valve	Set	2 sets for each rating
1.9.5	Any other spare parts recommended by the Manufacturer	-	As recommended by the Manufacturer
1.10	<b>Package Air Conditioners</b>		
1.10.1	Vibration Isolators	Set	2 Sets for each category
1.10.2	Filters	Set	2 sets for each PAC unit



S. No.	DESCRIPTION	UNIT	Qty
	EQUIPMENT / PACKAGE		
1.10.3	Bearings	Set	2 sets for each rating of PAC unit (both for condenser & Indoor Unit)
1.10.4	Condenser fan Impeller	Set	2 sets for each PAC unit
1.10.5	Expansion valve	Set	2 sets for each rating of PAC unit
1.10.6	Any other spare parts recommended by the Manufacturer	Set	2 sets for each rating of PAC unit
2	<b>Electrical Spares</b>		
2.1	<b>415 Volt Motor (above 30KW Rating upto200KW)</b>		
2.1.1	End Shield Cover Driving & Non-Driving End	Set	2 Set for each type and rating of Motor
2.1.2	Driving End & Non-Driving End Bearing	Set	2 Set for each type and rating of Motor
2.1.3	Cooling Fan	Nos.	2 Nos. for each type and rating of Motor
2.1.4	Motor Space Heater	Nos.	2 Nos. for each type and rating of Motor
2.1.5	Motor Terminal Block	Nos.	2 Nos. for each type and rating of Motor
2.1.6	Complete Set of Coupling	Set	2 Set for each Application
2.2	<b>415 Volt Motor (Upto 30KW Rating)</b>		
2.2.1	Driving End & Non-Driving End Bearing	Set	6 Set for each type and rating of Motor
2.2.2	Cooling Fan	Nos.	4 No. for each type and rating of Motor
2.2.3	Motor Terminal Block	Nos.	10 No. for each type and rating of Motor
2.2.4	Complete Set of Coupling	Set	2 Set for each Application
2.3	<b>Electrical Spares for Motors</b>		
2.3.1	Terminal plates	Nos	20 Nos. each for small motors up to 30KW and 8 Nos. each for motors above 30 KW
2.3.2	Heaters	Sets	2 Sets for each motor of rating above 30 KW
2.3.3	Greasing arrangements	Sets	8 sets for each type of motors
2.3.4	Motors below 0.75 KW	Nos	20% of the installed quantity or minimum 2 no. whichever is higher
2.3.5	Bearings (DE & NDE)	Sets	8 sets of each type and rating
2.4	<b>Electrical Spares</b>		
2.4.1	Control Supply Transformer	Nos	4 Nos. of each type and rating
2.4.2	Contactors	Nos	4 Nos. of each type and rating
2.4.3	Coils for contactor & aux. Contactors	Nos	10 Nos. for each contactor
2.4.4	Main&Aux.ContactssetsforcontactorandAux.Contactors	Sets	10 Sets. for each contactor
2.4.5	Air Break Switch	Nos	2 Nos. for each rating
2.4.6	Control ,Isolating and selector switches	%	10% of each type and rating
2.4.7	MCB/MCCB	%	20% of installed quantity
2.4.8	Circuit Breaker	Nos	2 Nos. for each rating
2.4.9	Indicating Lamps	%	20% of installed quantity
2.4.10	Indicatinglampscoverofdifferentcolourandholders	%	10% of installed quantity
2.4.11	Push Buttons of various colours	Nos	20 nos. of each type and colour
2.4.12	Terminal Blocks	%	10% of installed quantity
2.5	<b>HT Motor (other than BFP Motor)</b>		
2.5.1	Driving End Bearing	Nos	2Nos. (or 2Set as applicable) for each type and rating of Motor
2.5.2	Non-Driving End Bearing	Nos	2Nos. (or 2Set as applicable) for each type and rating of Motor
2.5.3	Cooling Fan Internal & External	Sets	2Sets for each type and rating ofMotor
2.5.4	Bearing Temperature Gauge Driving & Non-Driving End	Sets	2Sets for each type and rating ofMotor
2.5.5	Phase-Segregated Terminal Box	Sets	2Sets for each type and rating ofMotor
2.5.6	Neutral End Terminal Bushing with Fasteners	Nos	2Nos. for each type and rating ofMotor
2.5.7	RTD for Bearing Temperature	Nos	2Nos. for each type and rating ofMotor
2.5.8	Motor Space Heater	Nos	2Nos. for each type and rating ofMotor

S. No.	DESCRIPTION	UNIT	Qty
	EQUIPMENT / PACKAGE		
2.5.9	Complete Set of Coupling	Sets	2Sets for each Application
	<b>3 C&amp;I Spares</b>		
3.1	Actuator		
3.1.1	Complete set of Actuator	Nos.	2Nos. for each type and rating
3.1.2	Limit Switch	Nos.	6 Nos each type and rating
3.1.3	Torque Switch	Nos.	6 Nos each type and rating
3.1.4	Auxiliary Contact	Nos.	2 nos each type and rating
3.1.5	Motor	Nos.	2 nos each type and rating
3.1.6	Complete Seal kit	Set	2Sets for each type and rating
3.1.7	Complete O-Ring Set	Set	2Sets
3.1.8	Electronic Card	Nos.	Two(2) for each type/make
3.1.9	Feedback Assembly (4-20mA) for Inching type	Nos.	Two(2) for each type/make
	<b>3.2 UPS</b>		
3.2.1	Fuse	Nos.	6 (Six) times of total quantity of each type of fuses used in the system
3.2.2	SCR	Nos.	20% of total quantity of each type used in the system or minimum 4(Four) nos. whichever is more.
3.2.3	Diode	Nos.	20% of total quantity of each type used in the system or minimum 4(Four) nos. whichever is more.
3.2.4	IGBT	Nos.	4 (four) nos.
3.2.5	Electronic Module/ PCB		
3.2.6	Static Switch	Nos.	2 (two) no. each type of ElectronicCard/ PCB/ modules used in the system
3.2.7	Inverter	Nos.	2 (two) no. each type of ElectronicCard/ PCB/ modules used in the system
3.2.8	Static voltage Regulator	Nos.	2 (two) no. each type of ElectronicCard/ PCB/ modules used in the system
3.2.9	Charger	Nos.	2 (two) no. each type of ElectronicCard/ PCB/ modules used in the system
3.2.10	UPS of 2 KVA rating or below.	Set	Two Complete set.
3.2.11	Selector Switch	Nos.	2 (two) no. each type
3.2.12	Digital Voltage/ Current Indicator (LCD type)	Nos.	2 (two) no. each type
3.2.13	Indication Lamp- Complete assembly (Red/ Green colour)	Nos.	2 (two) no. each type
3.2.14	Cooling Fan - 240 VAC supply	Nos.	2 (two) no. each type
3.2.15	UPS Battery		
3.2.16	Battery Cell (Uncharged, Dry)	Nos.	20% of total quantity of each UPS.
3.2.17	Inter connecting cell strips	Nos.	20 nos.
3.2.18	Rubber gloves	Pair	2 pairs
3.2.19	Voltmeter for measuring cell voltage(Center zero type)	Nos.	2 nos.
3.2.20	Apron & Goggles	Set	2 sets
3.2.21	Cell lifting puller	Nos.	2 nos.
3.2.22	Insulated socket spanner with handle	Nos.	2 nos.
3.2.23	Terminal screw with bellaville washer	Nos.	20% of total quantity used
3.2.24	Thermometer	Nos.	2 nos.
	<b>3.3 Field Instruments</b>		
3.3.1	Transmitters/ Gauges/Switches etc. along with relevant accessories	Nos.	20% of total or at least four (whichever is higher) for each type along with accessories.
3.3.2	Temperature Element (RTD/Thermo-couple) with thermowell	Nos.	20% of each type , range and immersion length . Minimum 10 nos.
	<b>3.4 Control Valves and Dampers</b>		
3.4.1	Pneumatic Control Valves & Block Valves		
3.4.1.1	Plot Relay	Set	2 sets for each valve
3.4.1.2	Actuator Diaphragm	Set	2 nos.for each valve
3.4.1.3	Feedback Linkage	Set	2 nos.for each valve
3.4.1.4	Smart Positioners	Nos.	20% of total quantity of each model/type

S. No.	DESCRIPTION	UNIT	Qty
	EQUIPMENT / PACKAGE		
3.4.1.5	I/P Converters (If any)	Nos.	20% of total quantity or minimum 30 nos.
3.4.1.6	Complete Consumables for Valve Viz. O-ring, Gland Packing, Packing Ring, Bonnet Seal etc	Set	4 Sets each size, rating, type
3.4.1.7	Valve Disc	Set	4 Sets each size, rating, type
3.4.1.8	Valve Spindle	Set	4 Sets each size, rating, type
3.4.1.9	Valve Seat	Set	4 Sets each size, rating, type
3.4.1.10	Bush	Set	4 Sets each size, rating, type
3.4.1.11	Guide	Set	4 Sets each size, rating, type
3.4.1.12	Guide Bush	Set	4 Sets each size, rating, type
3.4.1.13	Coupling Nut	Set	4 Sets each size, rating, type
3.4.1.14	Actuator Piston with Rod & Seal	Set	4 Sets each size, rating, type
3.4.1.15	Control valve stem packing and spare operator moulded rubber diaphragms	Set	2 sets for each size, rating, type
3.4.1.16	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	Set	2 sets for each size, rating, type
3.4.1.17	Solenoid valves, position transmitters, limit switches, I/P convertors, positioners etc of each type	Nos.	20% of total quantity spare with minimum 2 no. for each size, rating, type
3.4.2	<b>Dampers</b>		
3.4.2.1	Actuator Diaphragm	Set	2 set for each damper
3.4.2.2	O-Ring set	Nos.	2 nos. of each size for positioner
3.4.2.3	Feedback Linkage	Nos.	2 no.for each type
3.4.2.4	Packing & gasket	Nos.	2no.for each type
3.4.3	<b>Solenoid Valves</b>		
3.4.3.1	Solenoid Valve Coil	Nos.	4 nos. of each rating & insulation
3.4.3.2	Plunger	Nos.	2 nos. of each type
3.4.3.3	Seat	Nos.	4 nos. of each type & size
3.4.3.4	Gaskets	Set	4 sets of each type & size
3.4.3.5	O-Ring set	Set	10 sets of each type & size
3.5	<b>Flow Elements</b>		
3.5.1	Root valves	Nos.	4 nos. for each flow element
3.5.2	Gland packing for root valves	Nos.	4 nos. for each flow element
3.5.3	Gaskets	Nos.	6 nos. for each flow element
3.6	<b>Process Connection Piping (Impulse piping/tubing, sampling piping / tubing &amp; air supply piping as applicable)</b>		
3.6.1	Valves of all types	Nos.	20% of each type, class, size & model
3.6.2	Valve Manifolds (2 way/3 way/5 way)	Nos.	20% of each type, class, size & model
3.6.3	Fittings	Nos.	20% of each type, class, size & model
3.6.4	Filter Regulators	Nos.	40% of each model
3.7	Cables (Control & Instrumentation) including FO cable as per Electrical scope matrix	Mtr	20% of each type, pair and size of actual installed quantity
3.8	<b>Control Panel/ Desk</b>		
3.8.1	Back-up panel mounted devices (Selector switches/ Push buttons/ Indicators etc.)	Nos.	10% of installed capacity
3.8.2	Lamps/ LEDs	Nos.	200% of the total quantity
3.8.3	Blank Tiles	Nos.	20% of installed capacity
3.8.4	MCBs	Nos.	20% of each type & rating
3.8.5	Fuses/ Fuse holder	Nos.	200% of each type & rating
3.8.6	Push Button		
3.8.6.1	Complete assembly	Nos.	10Nos for each colour
3.8.6.2	Contact Element (1NO + 1NC) Block	Nos.	40Nos.
3.8.7	Selector Switch	Nos.	20Nos. for each type and rating
3.8.8	Meter (Analog or Digital)		
3.8.8.1	Ammeter	Nos.	20% for each type and rating or minimum Two (2) no. whichever is more
3.8.8.2	Voltmeter	Nos.	20% for each type and rating or minimum Two (2) no. whichever is more
3.8.8.3	Frequency	Nos.	20% for each type and rating or minimum Two (2) no. whichever is more
3.8.8.4	MW	Nos.	20% for each type and rating or minimum Two (2) no. whichever is more
3.8.8.5	MVAR	Nos.	20% for each type and rating or minimum Two (2) no. whichever is more
3.8.8.6	Power Factor	Nos.	20% for each type and rating or minimum Two (2) no. whichever is more
3.8.8.7	Synchroscope	Nos.	20% for each type and rating or minimum Two (2) no. whichever is more
3.8.9	Indicating Lamps complete assembly	Nos.	20Nos. for each Colour and type
3.8.10	Mimic Lamps	Nos.	20Nos. for each Colour and type
3.8.11	MCB	Nos.	4Nos. for each type and rating
3.8.12	Door Limit Switch	Nos.	4Nos.
3.8.13	Annunciation system		
3.8.13.1	Lamp Box with Facia & Lamps (LED type)	Nos	50Nos.
3.8.13.2	Hoister	Nos	2Nos.
3.8.13.3	Each type of PCB (for non-PLC driven system)	Nos	2Nos.
3.9	<b>Junction Box</b>		
3.9.1	Junction box	Nos.	10% of total quantity for each size but minimum 2 nos.
3.9.2	Terminals in Terminal blocks	Nos.	10 nos. of each type
3.10	<b>PLC/ Proprietary Control System</b>		
3.10.1	Network cards, Communication Interface cards	Nos.	10% for each type or but minimum 2 no.
3.10.2	I/O Cards (Each type)	Nos.	10% for each type but minimum 2 nos.
3.10.3	Controller Cards	Nos.	4 nos.
3.10.4	SER Cards	Nos.	10% for each type or but minimum 2 no.
3.10.5	All other Electronic Modules	Nos.	10% for each type or but minimum 2 no.
3.10.6	Relays	Nos.	20% of total quantity
3.10.7	Power Supply Modules & Power Packs for control system	Nos.	10% for each type and range but minimum 2 nos. .

S. No.	DESCRIPTION	UNIT	Qty
	EQUIPMENT / PACKAGE		
3.10.8	Network Items (Network switch/ LIU unit/ Transceiver/ FO patch cord etc.)	Nos.	20% of total nos. used for each type and model in the system or minimum 4(four) no. whichever is more.
3.10.9	MCB (Miniature case circuit breaker)	Nos.	20% or minimum 20 nos. whichever is higher for each type and rating.
3.10.10	Fuses	Nos.	400% or minimum 100 no's for each type and rating
3.10.11	Racks for housing I/O & Processor Modules	Nos.	2(two) no. each type used in the system
3.10.12	Prefab interconnecting cables with connectors	Nos.	20% of total nos. used in the system or minimum 8(Eight) nos. whichever is more for each type.
3.10.13	Network communication cable with end connectors	Nos.	20% of total nos. used in the system or minimum 8(Eight) nos. whichever is more for each type.
3.10.14	I/O bus cables with connectors for remote I/O units	Nos.	2 nos. of each type & length
3.10.15	Fibre optic cable Converter / Deconverter	Nos.	2 nos.
3.10.16	Cooling Fans	Nos.	4 nos. for each cabinet
3.10.17	Loose Connectors	Nos.	10 nos. of each type
3.10.18	Colour TFT Monitor	Nos.	2 nos. complete set
3.10.19	Hard Disk Drive for the work Station	Nos.	2 nos. complete set
3.10.20	Key board , mouse / trackball with connecting cables and plugs	Nos.	2 nos. each type.
3.10.21	Printers Cartridges	Nos.	4 nos. of each type
3.10.22	SMPS for printers	Nos.	2 nos. of each type/ rating
3.10.23	SVGA cards for printers	Nos.	2 nos. of each type
3.10.24	Key Board & Cursor control device	Nos.	2 nos. of each type
3.10.25	Complete Set of Operators Work Station	Nos.	2 nos. complete set
3.10.26	Terminal Block	Nos.	20% of total nos. used in the system for each type and rating.
3.10.27	Read-Write CD/DVD	Nos.	4 (four) no. complete set
3.10.28	Blank CD/DVD	Nos.	100 nos.
4.1	<b>HOISTS (for each type and rating)</b>		
4.2	Bearings for long travel wheels	Sets	4 sets
4.3	Bearings for gear boxes for each type of hoist	Sets	4 sets
4.4	Break liners for all the brakes	%	200% of total population of each type & size
4.5	Oil seals	%	200% of total population of each type, size rating
4.6	Brake springs for all brakes	%	200% of total population of each type, size rating
4.7	Wire ropes for hooks	%	200% installed on each hoist
4.8	Solenoid coils for brakes	Sets	4 sets
4.9	Overload relay for motors	Nos	4 Nos.
4.10	Limit switches for hoists and travel mechanisms	Sets	4 sets
4.11	Spare motors for hoists (for hoisting motion)	Nos	4 Nos.
4.12.1	<b>Long travel machinery</b>		
4.12.2	Gear wheel	Sets	2 sets
4.12.3	Internal clip	Nos	4 Nos.
4.13	Pinion	Nos	2 Nos.
4.14.1	<b>415 Volt Motor (Upto 30KW Rating)</b>		
4.14.2	Driving End & Non-Driving End Bearing	Sets	6Sets for each type and rating of Motor
4.14.3	Cooling Fan	Nos	4Nos. for each type and rating of Motor
4.14.4	Motor Terminal Block	Nos	10Nos. for each type and rating of Motor
4.14	Complete Set of Coupling	Sets	2Sets for each Application
4.15.1	<b>Control Panel/ Desk</b>		
4.15.2	Back-up panel mounted devices (Selector switches/ Push buttons/ Indicators etc.)	%	10% of installed capacity
4.15.3	Lamps/ LEDs	%	200% of the total quantity
4.15.4	Blank Tiles	%	20% of installed capacity
4.15.5	MCBs	%	20% of each type & rating
4.15.6	Fuses/ Fuse holder	%	200% of each type & rating
4.15.7	Push Button		
4.15.7.1	Complete assembly	Nos	10Nos for each colour
4.15.7.1	Contact Element (1NO + 1NC) Block	Nos	40Nos.
4.15.8	Selector Switch	Nos	20Nos. for each type and rating
4.15.9	Indicating Lamps complete assembly	Nos	20Nos. for each Colour and type
4.15.10	Mimic Lamps	Nos	20Nos. for each Colour and type
4.15.11	MCB	Nos	4Nos. for each type and rating
4.15.12	Door Limit Switch	Nos	4Nos.
4.15.13	Annunciation system		
4.15.13.1	Lamp Box with Facia & Lamps (LED type)	Nos	50Nos.
4.15.13.2	Hooter	Nos	2Nos.
4.15.13.3	Each type of PCB (for non-PLC driven system)	Nos	2Nos.
5	<b>Chain Pulley Block (for each type and rating, hoists)</b>		
5.1	Load chain wheel	Nos	2 Nos.
5.2	Load chain stripping fork	Nos	10 Nos.
5.3	Hand chain wheel	Nos	4 Nos.
5.4	Ratchet pawl	Nos	2 Nos.
5.5	Locking ratchet wheel	Nos	4 Nos.
5.6	Guide roller	Nos	4 Nos.
5.7	Brake disc	Nos	4 Nos.
<b>Notes:</b>			
a)	Mandatory spares listed above are bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender specification apart from specified above, same shall be deemed to have been covered in bidder's scope of supply.		
b)	"One (1) Set" and "One (1) set of each type & rating" is defined as total numbers as required for one complete replacement for one equipment of similar size & capacity.		
c)	In case any spare indicated in the specification is "not applicable" for particular equipment, then suitable applicable alternate spare shall be supplied by the bidder without any financial implication.		
d)	For quantities indicated in percentage, fractions are to be rounded-off to next higher integer.		
e)	The quantity indicated shall be arrived based in the BOQ for the entire plant. Further, Stage # 1 (facilities for Unit # 1, Unit # 2, common to station as well as common for Unit #1 & 2) and Stage # 2 (facilities for Unit 3, 4, & 5 and common for Unit #3, 4, & 5) detailed break up of Mandatory Spares shall be submitted by bidder based on finalised BOQ arrived during detail engineering.		



**TECHNICAL SPECIFICATION  
FOR AIR CONDITIONING SYSTEM  
5X800 MW YADADRI TPS**

DOCUMENT NO.: PE-TS-417-553-A001

REVISION 00

DATE: JUN 2020

**SECTION: I  
SUB-SECTION: E  
ANNEXURE-III  
PAINTING AND COLOUR SCHEME  
(AS PER SECTION C2C)**



**5x800MW YADADRI TPS  
AIR CONDITIONING SYSTEM  
LIST OF TOOLS & TACKLES**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : I**

**SUB-SECTION : E**

**REV 00**

**SHEET 1 OF 1**

**ANNEXURE-IV**

**LIST OF TOOLS & TACKLES**

**(REFER SUGGESTIVE PRICE FORMAT)**



**5X800 MW YADADRI TPS**

**SPECIFICATION No: PE-TS-417-553-A001**

**AIR CONDITIONING SYSTEM  
DRAWINGS / DOCUMENTS SUBMISSION  
PROCEDURE**

**SECTION : I**

**SUB-SECTION : E**

**REV 00**

**DATE: JUN 2020**

**SHEET 1 OF 2**

**SECTION-I**

**SUB-SECTION-E**

**ANNEXURE-V**

**DRAWINGS / DOCUMENTS SUBMISSION PROCEDURE**

**(AS PER SECTION C2B)**



**5x 800MW YADADRI TPS  
AIR CONDITIONING SYSTEM  
MASTER DRAWING LIST WITH SCHEDULE  
OF SUBMISSION**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : I**

**SUB-SECTION : E**

**REV 00**

**SHEET 1 OF 6**

**SECTION-I**

**SUB-SECTION-E**

**ANNEXURE-VI**

**MASTER DRAWING LIST WITH SCHEDULE OF  
SUBMISSION**





**5x 800MW YADADRI TPS  
AIR CONDITIONING SYSTEM  
MASTER DRAWING LIST WITH SCHEDULE  
OF SUBMISSION**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : I**

**SUB-SECTION : E**

**REV 00**

**SHEET 2 OF 6**

<b>S. NO.</b>	<b>DRAWING NO</b>	<b>DRG./ DOC. TITLE</b>	<b>SCH. WEEK (FROM DATE OF LOI)</b>
1.	PE-V0-426-553-A001	INSPECTION CATEGORISATION PLAN FOR AIR CONDITIONING SYSTEM	4
2.	PE-V0-426-553-A002	QAP OF SCREW CHILLER PACKAGE	14
3.	PE-V0-426-553-A006	QAP OF AIR HANDLING UNIT	14
4.	PE-V0-426-553-A007	QAP OF PUMPS FOR AIR CONDITIONING SYSTEM	15
5.	PE-V0-426-553-A008	QAP OF COOLING TOWER FOR AIR CONDITIONING SYSTEM	15
6.	PE-V0-426-553-A009	QAP OF MOTORS FOR AIR CONDITIONING SYSTEM	15
7.	PE-V0-426-553-A010	QAP OF WATER SOFTENING PLANT	18
8.	PE-V0-426-553-A011	QAP FOR PLC	20
9.	PE-V0-426-553-A012	HEAT LOAD CALCULATION FOR MAIN PLANT, ESP / VFD CONTROL ROOMS, FGD CONTROL ROOM #1&2, ADMIN BUILDING, DM PLANT CONTROL ROOM AND SERVICE BUILDING ETC FOR AIR CONDITIONING SYSTEM	4
10.	PE-V0-426-553-A013	OPERATION & CONTROL PHILOSOPHY FOR AIR CONDITIONING SYSTEM	12
11.	PE-V0-426-553-A014	PRESSURE DROP CALCULATIONS FOR CHILLED AND CONDENSER WATER PIPING FOR AIR CONDITIONING SYSTEM	10
12.	PE-V0-426-553-A015	TDS AND GA OF SCREW CHILLER ALONG WITH FOUNDATION DETAILS FOR AIR CONDITIONING SYSTEM	16
13.	PE-V0-426-553-A016	TDS AND GA OF WATER SOFTENING PLANT ALONG WITH FOUNDATION DETAILS FOR AIR CONDITIONING SYSTEM	18
14.	PE-V0-426-553-A018	TDS AND GA OF COOLING TOWER ALONG WITH FOUNDATION DETAILS FOR AIR CONDITIONING SYSTEM	15
15.	PE-V0-426-553-A019	TDS AND GA OF AIR HANDLING UNITS ALONG WITH FOUNDATION DETAILS FOR AIR CONDITIONING SYSTEM	14
16.	PE-V0-426-553-A020	TDS AND GA OF CONDENSER AND CHILLEDWATER PUMPS ALONG WITH FOUNDATION DETAILS FOR AIR CONDITIONING SYSTEM	15
17.	PE-V0-426-553-A021	TDS AND GA OF PAC / SPLIT AIR CONDITIONER	12
18.	PE-V0-426-553-A022	TDS AND GA OF MOTOR (PUMP, COOLING TOWER, AHU)	15
19.	PE-V0-426-553-A023	TDS OF INSULATION MATERIAL (DUCT INSULATION, DUCT LINING, PIPE INSULATION)	12



**5x 800MW YADADRI TPS  
AIR CONDITIONING SYSTEM  
MASTER DRAWING LIST WITH SCHEDULE  
OF SUBMISSION**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : I**

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**REV 00**

**SHEET 3 OF 6**

S. NO.	DRAWING NO	DRG./ DOC. TITLE	SCH. WEEK (FROM DATE OF LOI)
		FOR AIR CONDITIONING SYSTEM	
20.	PE-V0-426-553-A024	TDS AND GA OF FRESH AIR FANS FOR AIR CONDITIONING SYSTEM	12
21.	PE-V0-426-553-A026	TDS AND GA OF AIR COOLED PRECISION AC UNITS ALONG WITH FOUNDATION DETAILS FOR AIR CONDITIONING SYSTEM	12
22.	PE-V0-426-553-A027	TDS AND GA OF FOR 3-WAY MIXING VALVE FOR AIR CONDITIONING SYSTEM	8
23.	PE-V0-426-553-A028	TDS AND GA OF HEATERS AND HUMIDIFIER FOR AIR CONDITIONING SYSTEM	7
24.	PE-V0-426-553-A029	TDS AND GA OF FIRE DAMPER WITH ACTUATOR FOR AIR CONDITIONING SYSTEM	10
25.	PE-V0-426-553-A030	TDS AND GA OF VALVES (BALANCING VALVE, GATE VALVE, CHECK VALVE , Y ATRAINER) FOR AIR CONDITIONING SYSTEM	9
26.	PE-V0-426-553-A031	TDS AND GA OF SUPPLY / RETURN AIR DIFFUSER/GRILL FOR AIR CONDITIONING SYSTEM	8
27.	PE-V0-426-553-A032	TDS OF GI SHEET FOR AIR CONDITIONING SYSTEM	5
28.	PE-V0-426-553-A033	TDS OF PIPES FOR AIR CONDITIONING SYSTEM	5
29.	PE-V0-426-553-A034	TDS AND GA OF EXPANSION TANK, MAKEUP WATER TANK AND SOFT WATER TANK FOR AIR CONDITIONING SYSTEM	5
30.	PE-V0-426-553-A035	TDS AND GA OF FILTERS FOR AIR CONDITIONING SYSTEM	10
31.	PE-V0-426-553-A036	TDS FOR INSTRUMENTS (GAUGES-TEM, PR, LVL, PRES: SWITCH-TEMP,LVL, DP: SENSORS-TEMP, HUM ETC) FOR AIR CONDITIONING SYSTEM	12
32.	PE-V0-426-553-A037	TDS FOR PLC	20
33.	PE-V0-426-553-A038	PID FOR MAIN PLANT, SERVICE BUILDING ESP ETC FOR AIR CONDITIONING SYSTEM	8
34.	PE-V0-426-553-A039	TYPICAL Details DUCT FABRICATION DRAWING / SUPPORT / ERECTION. INSULATION OF DUCTING / PIPING & EQUIPMENTS CHILLED AND CONDENSER WATER PIPE ERECTION	7
35.	PE-V0-426-553-A040	AC DUCT & AHU ROOM LAYOUT WITH FOUNDATION DETAIL FOR UPS BATTERY CHARGER ROOM AT 32.5M & SWAS ROOM AT 0 M	17



**5x 800MW YADADRI TPS  
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**REV 00**

**SHEET 4 OF 6**

<b>S. NO.</b>	<b>DRAWING NO</b>	<b>DRG./ DOC. TITLE</b>	<b>SCH. WEEK (FROM DATE OF LOI)</b>
36.	PE-V0-426-553-A041	AC DUCT LAYOUT DRAWING FOR CONTROL ROOM AREAS AT 17M ALONG WITH AHU ROOM LAYOUT WITH FOUNDATION DETAILS	16
37.	PE-V0-426-553-A042	AC DUCT LAYOUT DRAWING FOR ESP WITH AHU/PU ROOM LAYOUT WITH FOUNDATION DETAILS FOR INDR & OUTDR UNITS	18
38.	PE-V0-426-553-A043	AC DUCT LAYOUT DRAWING FOR FGD CONTROL BUILDING WITH PU ROOM LAYOUT WITH FOUNDATION DETAILS FOR INDR & OUTDR UNITS	16
39.	PE-V0-426-553-A044	AC DUCT LAYOUT DRAWING FOR DM PLANT CONTROL BUILDING WITH PU ROOM LAYOUT WITH FOUNDATION DETAILS FOR INDR & OUTDR UNITS	16
40.	PE-V0-426-553-A045	AC DUCT LAYOUT DRAWING FOR SERVICE BUILDING WITH AHU ROOM LAYOUT AND FOUNDATION DETAILS	18
41.	PE-V0-426-553-A046	AC DUCT LAYOUT DRAWING FOR ADMINISTRATION BUILDING WITH PU ROOM LAYOUT AND FOUNDATION DETAILS	18
42.	PE-V0-426-553-A047	AC DUCT LAYOUT DRAWING FOR OTHER AUXILIARY BUILDING WITH PU ROOM LAYOUT AND FOUNDATION DETAILS	20
43.	PE-V0-426-553-A048	CHD & COND WATER PIPING LAYOUT WITHIN PLANT ROOM & UPTO VARIOUS AHU ROOMS, & COOLING TOWER AREA FOR POWER HOUSE	18
44.	PE-V0-426-553-A049	CHD & COND WATER PIPING LAYOUT WITHIN PLANT ROOM & UPTO VARIOUS AHU ROOMS, & COOLING TOWER AREA FOR SERVICE BUILDING	18
45.	PE-V0-426-553-A050	CHD & COND WATER PIPING LAYOUT WITHIN PLANT ROOM & UPTO VARIOUS PAC ROOMS, & COOLING TOWER AREA FOR ESP BUILDING	18
46.	PE-V0-426-553-A051	CHD & COND WATER PIPING LAYOUT WITHIN PLANT ROOM & UPTO VARIOUS PAC ROOMS, & COOLING TOWER AREA FOR FGD CONTROL BUILDING	20
47.	PE-V0-426-553-A052	CHD & COND WATER PIPING LAYOUT WITHIN PLANT ROOM & UPTO VARIOUS PAC ROOMS, & COOLING TOWER AREA FOR DM PLANT CONTROL ROOM.	20
48.	PE-V0-426-553-A053	AC PLANT ROOM LAYOUT & COOLING TOWER AREA LAYOUT WITH COMPLETE FOUNDATION DETAIL OF ALL EQUIPMENT FOR POWER HOUSE	12



**5x 800MW YADADRI TPS  
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**SHEET 5 OF 6**

S. NO.	DRAWING NO	DRG./ DOC. TITLE	SCH. WEEK (FROM DATE OF LOI)
49.	PE-V0-426-553-A054	AC PLANT ROOM LAYOUT & COOLING TOWER AREA LAYOUT WITH COMPLETE FOUNDATION DETAIL OF ALL EQUIPMENT FOR SERVICE BUILDING	12
50.	PE-V0-426-553-A055	AC PLANT ROOM LAYOUT & COOLING TOWER AREA LAYOUT WITH COMPLETE FOUNDATION DETAIL OF ALL EQUIPMENT FOR ESP BUILDING	12
51.	PE-V0-426-553-A056	AC PLANT ROOM LAYOUT & COOLING TOWER AREA LAYOUT WITH COMPLETE FOUNDATION DETAIL OF ALL EQUIPMENT FOR DM PLANT CONTROL ROOM	16
52.	PE-V0-426-553-A057	AC PLANT ROOM LAYOUT & COOLING TOWER AREA LAYOUT WITH COMPLETE FOUNDATION DETAIL OF ALL EQUIPMENT FOR FGD CONTROL ROOM	16
53.	PE-V0-426-553-A058	SPLIT/CASSETTE AC SCHEDULE ALONGWITH HEAT LOAD CALCULATION FOR AUXILIARY BUILDING	22
54.	PE-V0-426-553-A059	I/O LIST FOR AC SYSTEM	20
55.	PE-V0-426-553-A060	ELECTRICAL FEEDER LIST FOR AIR CONDITIONING SYSTEM	18
56.	PE-V0-426-553-A061	CABLE SCHEDULE FOR AIR CONDITIONING SYSTEM	22
57.	PE-V0-426-553-A062	PG/ DEMONSTRATION TEST PROCEDURE FOR AIR CONDITIONING SYSTEM	12
58.	PE-V0-426-553-A063	O&M MANUAL FOR AIR CONDITIONING SYSTEM	25
59.	PE-V1-426-XXX-A100	Manufacturing Quality Plan with Sub vendor list for Electric hoist.	14
60.	PE-V1-426-XXX-A101	Mechanism Sizing Calculation with Schematic Circuit Diagram and GA Drawing for Electric Hoist, DSL arrangement and painting details	15
61.	PE-V1-426-XXX-A200	Manufacturing Quality Plan for Manual Hoist (chain pulley block)	14
62.	PE-V1-426-XXX-A201	GA Drawing for CPB with detail BOM with painting details	16

**Notes:**

1. The above drawing list is tentative and shall be finalized with the successful bidder after placement of order. While some of the drawings indicated above may not be applicable, some additional drawings may also be required based on scope of work.
2. Drawings shall be prepared in Auto-Cad latest edition. Required no. of hard and soft copies (editable) of the drawings shall be furnished as per requirement specified elsewhere in the specification.



**5x 800MW YADADRI TPS  
AIR CONDITIONING SYSTEM  
MASTER DRAWING LIST WITH SCHEDULE  
OF SUBMISSION**

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3. Only manual calculation with authentic supporting literature (e.g. extracts of hand Book/ standard/codes) shall be acceptable. All design calculations and drawings shall be in SI system only.
4. All the drawings and documents including general arrangement drawing, data sheet, calculation etc. to be furnished to the customer during detailed engineering stage shall include / indicate the following details for clarity w.r.t. Inspection, construction, erection and maintenance etc.: -
  - a) All drawings and documents shall indicate the list of all reference drawings including general arrangement.
  - b) All drawings shall include / show plan, elevation, side view, cross - section, skin section, blow - up view; all major self-manufactured and bought out items shall be labeled and included in BOQ / BOM in tabular form.
  - c) Painting schedule shall also be made as a part of general arrangement drawing of each equipment / items indicating at least 3 trade names.
  - d) All the drawings required to be furnished to customer during detailed engineering stage shall include technical parameters, details of paints and lubrication, hardness and BOQ / BOM in tabular form indicating all major components including bought out items and their quantity, material of construction indicating its applicable code / standard, weight, make etc.
  - e) Drawings/ documents to be submitted for purchasers review/ approval shall be under Revision A, B, C... etc. while drawings /documents to be submitted thereafter for customer's approval after purchaser's approval shall be under R-0, 1, 2, 3 ....etc.
  - f) Drawings and documents not covered above but required to check safety of machines/ system, shall be submitted during detailed engineering stage without any commercial implication.
  - g) All drawings shall include "B.O.M" and indicate quantity, material of construction, make along with IS/BS No., Technical parameters, dimensions, hardness, machining symbol and tolerance, requirement of radiography and hydraulic tests, painting details, elevation, side view, plan, skin section and blow-up view for clarity.
  - h) All drawings shall be prepared as per BHEL's title block and shall bear BHEL's drawing No.
  - i) Schedule of drawings submissions, comment incorporations & approval shall be as stipulated in the specifications. The successful bidder shall depute his design personnel to BHEL's/ Customer's/ Consultant's office for across the table resolution of issues and to get documents approved in the stipulated time.
  - j) Bidder to follow the following the drawing submission schedule:
  - k) 1st submission of drawings from date of LOI as per the submission schedule.
  - l) Every revised submission incorporating comments – within 7 days.
  - m) Bidder to submit revised drawings complete in all respects incorporating all comments. Any incomplete drawing submitted shall be treated as non-submission with delays attributable to bidder's account. For any clarification/ discussion required to complete the drawings, the bidder shall himself depute his personal to BHEL for across the table discussions/ finalizations/ submissions of drawings.



5X800 MW YADADRI TPS

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SECTION : I

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SHEET 1

AIR CONDITIONING SYSTEM  
FORMAT FOR OPERATION AND  
MAINTENANCE MANUAL

**SECTION-I**

**SUB-SECTION-E**

**ANNEXURE-VII**

**FORMAT FOR OPERATION AND MAINTENANCE  
MANUAL**



5X800 MW YADADRI TPS

SPECIFICATION No: PE-TS-417-553-A001

SECTION : I

SUB-SECTION : E

REV 00

DATE: JUN 2020

SHEET 2

**AIR CONDITIONING SYSTEM  
FORMAT FOR OPERATION AND  
MAINTENANCE MANUAL**

Project name :  
Project number :  
Package Name :  
PO reference :  
Document number :  
Revision number :

Sl.no. & Sections	Description	Tick ( √ )if included in Manual			Remarks
		Yes	No	Not Applicable	
1.	<b>COVER PAGE</b>				
1.1	Project Name				
1.2	Customer/consultant Name				
1.3	Name of Package				
1.4	Supplier details with phone, FAX ,email address , Emergency Contact number				
1.5	Name and sign of prepared by , checked by & approved by				
1.6	Revision history with approval Details				
2.0	<b>INDEX</b>				
2.1	showing the sections & related page nos All the pages should be numbered section wise				
3.0	<b>DESCRIPTION OF PLANT/SYSTEM</b>				
3.1	Description /write up of operating principle of system equipment/ associated sub-systems & accessories/controls system , operating conditions, performance parameters under normal , start up and special cases				
3.2	Equipment list and basic parameter with Tag numbers				
3.3	Data sheets approved by Customer/for information and catalogues provided by original manufacturer				
3.4	Associated other packages and Interface /terminal points				
3.5	P&ID & Process Diagrams				
3.6	GA Layout drawings, As-built drawings , Actual photograph of items/system (Drawings of A2 & bigger sizes are to be attached in the last)				
3.7	Single line/wiring diagrams				
3.8	Control philosophy /control write-ups				



**5X800 MW YADADRI TPS**

**SPECIFICATION No: PE-TS-417-553-A001**

**AIR CONDITIONING**

**SECTION : I**

**SYSTEM**

**SUB-SECTION : E**

**FORMAT FOR OPERATION AND  
MAINTENANCE MANUAL**

**REV 00**

**DATE: JUN2020**

**SHEET 3**

Sl.no. & Sections	Description	Tick ( ✓ )if included in Manual			Remarks
		Yes	No	Not Applicable	
<b>4.0</b>	<b>COMMISSIONING ACTIVITIES (IF NOT COVERED IN SEPARATE DOCUMENT I.E. ERECTION MANUAL, COMMISSIONING MANUAL)</b>				
<b>4.1</b>	Pre-Commissioning Checks				
<b>4.2</b>	handling of items at site				
<b>4.3</b>	Storage at site				
<b>4.4</b>	Unpacking & Installation procedure				
<b>5.0</b>	<b>OPERATION GUIDELINES FOR PLANT PERSONAL/USER/OPERATOR</b>				
<b>5.1</b>	Interlock & Protection logic along with the limiting values of protection settings for the equipment along with brief philosophy behind the logic, drawings etc. to be provided.				
<b>5.2</b>	Start up, normal operation and shut down procedure for equipments along with the associated systems in step by step mode. Valve sequence chart, step list, interlocks etc. with Equipment isolating procedures to be mentioned.				
<b>5.3</b>	Do's & Don't of the equipments.				
<b>5.4</b>	Safety precautions to be taken during normal operation. Safety symbols, Emergency instructions on total power failure condition/lubrication failure/any other condition				
<b>5.5</b>	Parameters to be monitored with normal values and limiting values				
<b>5.6</b>	Trouble shooting with causes and remedial measures				
<b>5.7</b>	Routine operational checks, recommended logs & records				
<b>5.8</b>	Changeover schedule if more than one auxiliary for the same purpose is given				
<b>5.9</b>	Painting requirement and schedule				
<b>5.10</b>	Inspection, repair , Testing and calibration procedures				
<b>6.0</b>	<b>MAINTENANCE GUIDELINES FOR PLANT PERSONAL</b>				





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**AIR CONDITIONING SYSTEM  
FORMAT FOR OPERATION AND  
MAINTENANCE MANUAL**

Sl.no. & Sections	Description	Tick ( ✓ )if included in Manual			Remarks
		Yes	No	Not Applicable	
6.1	List of Special Tools and Tackles required for Overhaul/Trouble shooting including special testing equipment required for calibration etc.				
6.2	Stepwise dismantling and re-assembly procedure clearly specifying the tools to be used, checks to be made, records to be maintained, clearances etc. to be mentioned. Tolerances for fitment of various components to be given.				
6.3	Preventive Maintenance & Overhauling schedules linked with running hours/calendar period along with checks to be given				
6.4	Long term maintenance schedules especially for structural, foundations etc.				
6.5	Consumable list along with the estimated quantity required during commissioning, normal running and during maintenance like Preventive Maintenances and Overhaul. Storage/handling requirement of consumables/self-life.				
6.6	List of lubricants with their Indian equivalent, Lubrication Schedule, Quantity required for each equipment for complete replacement is to be given				
6.7	List of vendors & Sub-vendors with their latest addresses, service centres ,Telephone Nos., Fax Nos., Mobile Nos., e-mail IDs etc.				
6.8	List of mandatory and recommended spare parts list				
6.9	Tentative Lead time required for ordering of spares from the equipment supplier				
6.10	Guarantee and warranty clauses				
7.0	<b>Statutory and other specific requirements considerations.</b>				
8.0	<b>List of reference documents</b>				
9.0	<b>Binding as per requirement</b>				



**5X800 MW YADADRI TPS**

**SPECIFICATION No: PE-TS-417-553-A001**

**AIR CONDITIONING SYSTEM  
SITE STORAGE AND PRESERVATION**

**SECTION : I**

**SUB-SECTION : E**

**REV 00**

**DATE: JUNE 2020**

**SHEET**

**SECTION-I**  
**SUB-SECTION-E**  
**ANNEXURE-VIII**  
**SITE STORAGE AND PRESERVATION**

# SITE STORAGE AND PRESERVATION GUIDELINES FOR MECHNANICAL BOPs

(Doc No: PE-DC-SSG-A001 REV.00)



PROJECT ENGINEERING MANAGEMENT, POWER SECTOR  
BHARAT HEAVY ELECTRICALS LIMITED-NOIDA

## CONTENT

- 1 SCOPE OF THE DOCUMENT
- 2 PURPOSE OF STORAGE & PRESERVATION
- 3 MEASURES TO BE TAKEN FOR STORAGE AND PRESERVATION
  - a) GENERAL STORAGE REQUIREMENTS
  - b) GENERAL PRESERVATION REQUIREMENTS
  - c) GENERAL INSPECTION REQUIREMENTS
- 4 TYPE OF STORAGE FOR VARIOUS EQUIPMENT
5. CONCLUSION
6. STACKING ARRANGEMENT FOR PLATES AND STRUCTURAL STEEL

## **1. SCOPE OF THE DOCUMENT**

This guideline is prepared in intent to provide proper site storage and preservation of the Mechanical, Electrical and C & I items / equipment supplied under various bought out packages/items. This storage procedure shall be followed at different power plant sites by concerned agency for storage and preservation from the date of equipment received at site until the same are erected and handed over to the customer.

## **2. PURPOSE OF STORAGE & PRESERVATION**

Many of the items may be required to be kept in stores for long period. It shall therefore be essential that proper methods of storage and preservation be applied so that items do not deteriorate, loose some of their properties and become unusable due to atmospheric conditions and biological elements.

## **3. MEASURES TO BE TAKEN FOR STORAGE, HANDLING & PRESERVATION**

### **a) GENERAL STORAGE REQUIREMENTS**

1. To the extent feasible, materials should be stored near the point of erection. The storage areas should have adequate unloading and handling facilities with adequate passage space for movement of material handling equipment such as cranes, fork lift trucks, etc. The storage of materials shall be properly planned to minimise time loss during retrieval of items required for erection.
2. The outdoor storage areas as well as semi-closed stores shall be provided with adequate drainage facilities to prevent water logging. Adequacy of these facilities shall be checked prior to monsoon.
3. The storage sheds shall be built in conformity with fire safety requirements. The stores shall be provided with adequate lights and fire extinguishers. 'No smoking' signs shall be placed at strategic locations. Safety precautions shall be strictly enforced.
4. Adequate lighting facility shall be provided in storage areas and storage sheds and security personnel positioned to ensure enforcement of security measures to prevent theft and loss of materials.
5. Adequate number of competent stores personnel and security staff shall be deployed to efficiently store and maintain the equipment / material.
7. The equipment shall be stored in an orderly manner, preserving their identification slips, tags and instruction booklets, etc., required during erection. The storage of materials shall be equipment-wise. Loose parts shall be stored in sheds on racks,

preserving the identification marks and tags in good condition. The group codes shall be displayed on the racks

6. At no time shall any materials be stored directly on ground. All materials shall be stored minimum 200 mm above the ground preferably on wooden sleepers

**b) GENERAL PRESERVATION REQUIREMENTS**

1. All special measures to prevent corrosion shall be taken like keeping material in dry condition, avoiding the equipment coming in contact with corrosive fluid like water, acid etc.
2. Materials which carry protective coating shall not be wrapped in paper, cloth, etc., as these are liable to absorb and retain moisture. The material shall be inspected and in case of signs of wear or damages to protective coating, that portion shall be cleaned with approved solution and coated with an approved protective paint. Complete record of all such observations and protective measures taken shall be maintained.
3. Generally equipment supplied at site are properly greased or rust protective oil is applied on machined/ fabricated components. However periodic inspection shall be carried out to ensure that protection offered is intact.
4. While handling the equipment, no dragging on the ground is permitted. Avoid using wire rope for lifting coated components. Use polyester slings (if possible) otherwise protective material (e.g. clothes, wood block etc.) should be used while handling the components with rope / slings
5. For Equipment supplied with finished paint, touch paint shall be done in case any surface paint gets peeled off during handling. Otherwise such surfaces shall necessarily be wrapped with polythene to avoid any corrosion. Further for equipment wherein finish coat is to be applied at site, site to ensure that equipment is received with primer coat applied.
6. It shall be ensured by periodic inspection that plastic inserts are intact in tapped holes, wherever applicable.
7. Pipes shall be blown with air periodically and it shall be ensured that there is no obstruction.
8. Silica gel or approved equivalent moisture absorbing material in small cotton bags shall be placed and tied at various points on the equipment, wherever necessary.
9. Heavy rotating parts in assembled conditions shall be periodically rotated to prevent corrosion/jamming due to prolonged storage.

10. All the electrical equipment such as motors, generators, etc. shall be tested for insulation resistance at least once in three months and a record of such measured insulation values shall be maintained.
11. Following preservatives/preservation methods can be used depending upon type of equipment
  - a. Rust preventive fluid (RPF)
  - b. Rust protective paints
  - c. Tarpaulin covers, in case of outdoor storage
  - d. De-oxy aluminate for weld-ments

**c) GENERAL INSPECTION REQUIREMENTS**

1. Period inspection of materials with specific reference to –
  - Ingress of moisture and corrosion damages.
  - Damage to protective coating.
  - Open ends in pipes, vessels and equipment -
    - In case any open ends are noticed, same shall be capped.
2. Any damages to equipment / materials.
  - In case of any damages, these shall be promptly notified and in all cases, the repairs / rectification shall be carried out.
  - Any items found damaged or not suitable as per project requirements shall be removed from site. If required to store temporarily, they shall be clearly marked and stored separately to prevent any inadvertent use.

#### 4. TYPE OF STORAGE FOR VARIOUS EQUIPMENT

The types of storage are broadly classified under the following heads:

i **Closed storage with dry and dust free atmosphere. (C )**

The closed shed can be constructed by using cold-rolled / tubular components for structure and corrugated asbestos sheets / galvanised iron sheets for roofing. Brick walls / asbestos sheets can be used to cover all the sides. The floor of the shed can be finished with plain cement concrete suitably glazed. The shed shall be provided with proper ventilation and illumination.



ii **Semi-closed storage. (S)**

The semi closed shed can be constructed by using cold-rolled / tubular components for structure and corrugated / asbestos sheets for roofing. The floor shall be brick paved. If required a small portion of sides can be covered to protect components from rainwater splashing onto the components.







iii Open storage (O )

The open yard shall be levelled, well consolidated to achieve raised ground with the provision of feeder roads for crane approach along with access roads running all sides. One part of the open yard shall be stone pitched, levelled and consolidated with raised ground suitable for storing / stacking heavier and critical components with due space to handle them by cranes etc . Adequate number of sleepers, concrete block etc. to be provided to make raised platforms to stack critical materials.

A separate yard to be identified as “scrap yard” slightly away from main open yard to store wooden/steel scraps, which are to be disposed off. This is required to avoid mix up with regular components as well as to avoid fire hazard.

Some of the components, which are having both machined & un-machined surfaces and are bulky, shall be stored in open storage area on a raised ground and suitably covered with water proof / fire retardant tarpaulin.



The equipment listed below shall be stored and inspected as per requirement mentioned in the table below.

Sl. No.	Description of the equipment	Type of Storage	Check for	Remarks
<b>Raw material /mechanical items like pipes, plates, structure sections etc.)</b>				
1.	Steel pipes ( lined/unlined)	S	Damage , paint, corrosion, rubber lining peeling	Provide end cap
2.	MS Plates	S	Damage, paint, corrosion	
3.	SS Plates	S	Damage	
4.	Non-metallic pipes	S	Damage, cracks	Provide end cap
5.	Stainless steel pipes	S	Damage ,	Provide end cap
6.	MS sections, beams	S	Damage, paint, corrosion	
7.	Cable trays	S	Damage, condition of preservations	
8.	Insulation sheets	S	Damage	
9.	Insulation	C	Damage, packing	
10.	Hangers Rods	S	Damage, paint, packing	
11.	Tubes	S	Damage, paint , packing	Provide end cap
12.	Hume pipes	O	Damage	
13.	Castings	O	Damage, paint, corrosion	
<b>Fabricated mechanical items (pressure vessels, tanks etc.)</b>				
14.	Pressure vessels (unlined)	O	Damage, paint, corrosion,	Covered nozzles
15.	Atmospheric storage tanks (unlined)	O	Damage, paint, corrosion	Covered nozzles

Sl. No.	Description of the equipment	Type of Storage	Check for	Remarks
16.	Pressure vessels (lined)	S	Damage, paint, corrosion, rubber lining	
17.	Atmospheric storage tanks(lined)	S	Damage, paint, corrosion, rubber lining	
18.	Support structures	O	Damage , paint, corrosion	
19.	Flanges	C	Damage , paint, corrosion	
20.	Fabricated pipes	S	Damage , paint, corrosion	Provide end cap
21.	Vessels internals	C	Damage , paint, corrosion ,packing	
22.	Grills	S	Damage , paint, corrosion	
23.	Angles	S	Damage , paint, corrosion	
24.	Bridge mechanism/clarifier mechanism	O	Damage , paint, corrosion	
25.	Cranes, rails	S	Damage , paint, corrosion	
26.	Stair cases	O	Damage , paint, corrosion	
27.	Ladders/handrails	O	Damage , paint, corrosion	
28.	Fabricated ducts	S	Damage , paint, corrosion	
29.	Isolation Gates	O	Damage , paint, corrosion	
30.	Fabricated boxes/panels	S	Damage , paint, corrosion	
<b>Mechanical components like valves, fittings, cables glands, spares etc.)</b>				
31.	Valves	S	Damage , packing	

Sl. No.	Description of the equipment	Type of Storage	Check for	Remarks
32.	Fittings	S	Damage , packing	Provide end cap
33.	Cable glands	C	Damage , packing	
34.	Tools & tackles	C	Damage , packing	
35.	Nut , bolts, washers,	C	Damage , packing	
36.	Gasket & Packings	C	Damage , packing	
37.	Copper tubes	C	Damage , packing, corrosion	Provide end cap
38.	SS tubing	C	Damage , packing	Provide end cap
<b>Rotating assemblies (pumps, blowers, stirrers, fans, compressors etc.)</b>				
39.	Pumps	S	Damage , packing, corrosion	Shaft rotation
40.	Blowers/Compressors	S	Damage , packing, corrosion	Shaft rotation
41.	Agitators/stirrers/radial launders	C	Damage , packing, corrosion	Shaft rotation
42.	Rollers for chlorine tonner mounting	C	Damage , packing, corrosion	
43.	Centrifuge	S	Damage , packing,	
44.	Gear box	C	Damage , packing, corrosion	
45.	Bearings	C	Damage , packing, corrosion	
46.	Fans	S	Damage , packing, corrosion	
47.	Dosing skids	S	Damage , packing, corrosion	
48.	Pump assemblies	S	Damage , packing, corrosion	
49.	Air washers( INTERNALS)	S	Damage , packing	
50.	Air conditioners ( split)	C	Damage , packing	

Sl. No.	Description of the equipment	Type of Storage	Check for	Remarks
51.	Elevators( CONTAINERIZED)	O	Damage , packing, corrosion	
52.	Chillers/VA machines	S	Damage , packing	
53.	Air handling Unit/Package unit	S	Damage , packing	
54.	Chlorinators & Evaporators	C	Damage , packing	
55.	Ejectors	C	Damage , packing	
56.	Electrolyser	C	Damage , packing	
<b>Miscellaneous items like chain pulley blocks, hoists etc.</b>				
57.	Chain pulley blocks	S	Damage, Packing	
58.	Electric hoists	S	Damage, Packing	
59.	Fire extinguishers	C	Damage, expiry date	
60.	Fork Lift Truck	S	Damage, Packing	
61.	Hydraulic Mobile Crane	O	Damage, Packing	
62.	Mobile Pick Up & Carry Crane	O	Damage, Packing	
63.	Motor boats	O	Damage, Packing	
64.	Safety showers	S	Damage, Packing	
65.	Diffusers/dampers	S	Damage, Packing	
<b>Chemicals and consumables ( acid, alkali, paints, oils, reagents and special chemicals)</b>				
66.	Hydro Chloric Acid (HCl)	Store in canes/ storage tank in dyke area	Date of production/ leakage/fumes	hazardous chemical
67.	Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> )	Store in canes/ storage tank in dyke area	Date of production/ leakage/fumes	hazardous chemical

Sl. No.	Description of the equipment	Type of Storage	Check for	Remarks
68.	Sodium hydroxide (NaOH)	Store in canes/ storage tank in dyke area	Date of production/ leakage/ fumes/ breather	hazardous chemical ,breather to be checked for air ingress
69.	Sodium hypo chlorite	To be stored under shed	Date of production/ leakage/ fumes	hazardous chemical ,self-life normally 15-30 days after which strength of chemical decays
70.	Ammonia	S	Date of production/ leakage/ fumes	Store in closed storage tanks, hazardous chemical
71.	CW treatment chemicals	S	Date of production , Self-life	Store in closed canes
72.	RO/UF cleaning chemicals	S	Date of production , Self-life	Store in closed canes
73.	Lime	C	Damage to packing , seepage	Prevent moisture, rain
74.	Alum bricks	C	Damage to packing	Prevent moisture, rain
75.	Poly electrolyte	S		Store in closed storage tanks
76.	Laboratory chemicals( powder)	C	Damage, Packing self- life	
77.	Laboratory chemicals( liquid)	C	Damage, Packing self- life	
78.	Lubrication oils	C	Leakage	
79.	Paints	S	Leakage ,air tightness	
80.	Sand	O	Damage of packing	No hooks
81.	Salt (NaCl)	C	Damage of packing, water ingress	Prevent moisture, rain
82.	Anthracite	S	Damage of packing	
83.	Activated carbon	S	Damage of packing	

Sl. No.	Description of the equipment	Type of Storage	Check for	Remarks
84.	Thermal insulation	S	Damage of packing	
85.	Cement	C	Damage of packing	Prevent moisture, rain
86.	Gravels	O	Damage of packing	
87.	ION exchange resins	C	Damage , packing	Refer manufacturer guidelines
88.	RO membranes	C	Damage , packing	Refer manufacturer guidelines
89.	UF membranes	C	Damage , packing	Refer manufacturer guidelines
90.	Cleaning chemicals	C	Damage , packing	Refer manufacturer guidelines
91.	Chemicals for analysers/calibration	C	Damage , packing	Refer manufacturer guidelines
<b>Electrical and C &amp; I items (motors, cables etc.)</b>				
92.	Motors	C	Damage , packing	
93.	Cable drums	O	Damage	
94.	Control Panel /control desk, UPS ,JB	S	Damage, Packing	
95.	Instruments( gauges/analysers)	C	Damage	
<b>Special items</b>		As per Manufacturer's item, like Hydrogen cylinders, Ozonator, Analyser, Chlorine dioxide generators etc.		

## **5. CONCLUSION**

Concerned storage agency at site should make sure that loss in equipment performance and wear & tear are minimised through proper storage and preservation. The above are broad guidelines and cover major equipment / materials. However specific storage practices shall be followed as per manufacturer recommendation. All the necessary measures even in addition to the ones mentioned above, if found necessary, should be taken to achieve the objective.



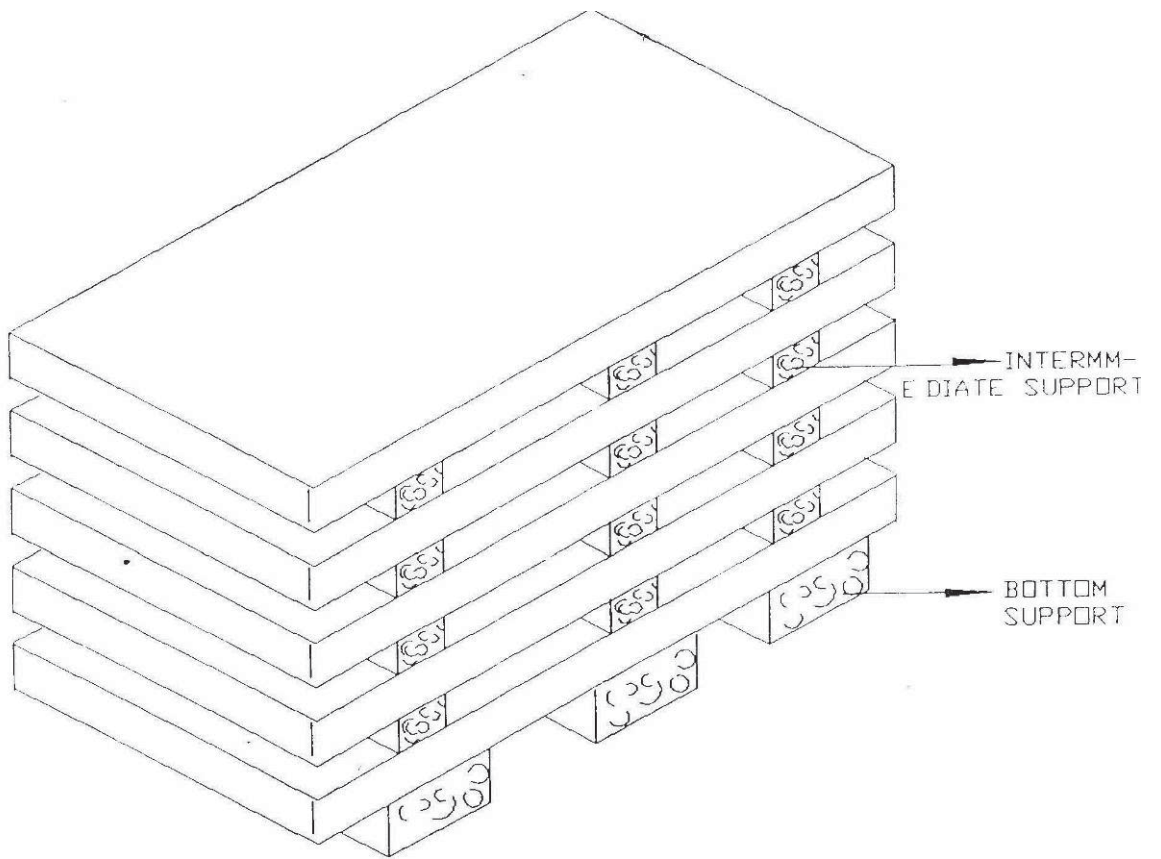


Figure - 1 - PLATE STACKING ARRANGEMENT

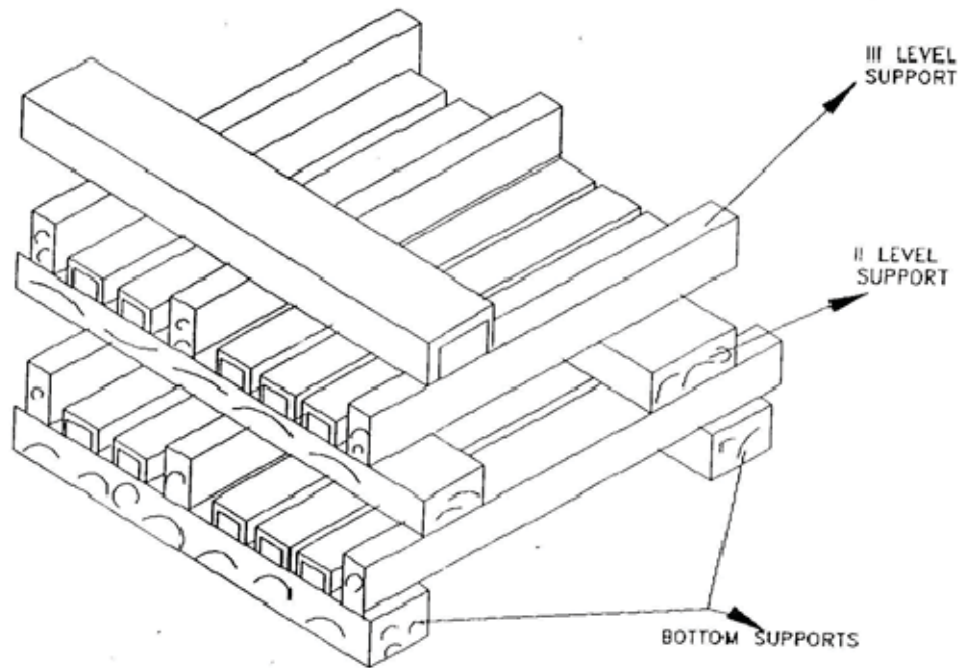


Figure - 2 - STRUCTURAL STEEL STACKING ARRANGEMENT



**5 X 800MW YADADRI TPS  
AIR CONDITIONING SYSTEM**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : I**

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**SECTION-I**  
**SUB-SECTION-E**  
**ANNEXURE-IX**  
**PACKING PROCEDURE**  
**(REFER SUB-SECTION C2-B)**



**5x800MW YADADRI TPS  
AIR CONDITIONING SYSTEM  
CLARIFIED WATER ANALYSIS**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : I**

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**ANNEXURE-X  
CLARIFIED WATER ANALYSIS**



### Analysis of Clarified water

**Table-1B**

S.No.	CONSTITUENTS	As	CONTENT
1.	Calcium	CaCO <sub>3</sub>	121.9 ppm
2.	Magnesium	CaCO <sub>3</sub>	74.1 ppm
3.	Sodium	CaCO <sub>3</sub>	184.4 ppm
4.	Potassium	CaCO <sub>3</sub>	1.1 ppm
5.	Iron in Soln.	Fe	Nil
	<b>TOTAL CATIONS</b>	<b>CaCO<sub>3</sub></b>	<b>381.5 ppm</b>
6.	Bicarbonate	CaCO <sub>3</sub>	134.8 ppm
7.	Sulphate	CaCO <sub>3</sub>	80.9 ppm
8.	Chloride	CaCO <sub>3</sub>	161.0 ppm
9.	Nitrate	CaCO <sub>3</sub>	3.5 ppm
10.	Phosphate	CaCO <sub>3</sub>	Nil
11.	Fluoride	CaCO <sub>3</sub>	1.3 ppm
	<b>TOTAL ANIONS</b>	<b>CaCO<sub>3</sub></b>	<b>381.5 ppm</b>
12.	Reactive Silica	SiO <sub>2</sub>	14.1 ppm
13.	Colloidal Silica	SiO <sub>2</sub>	Nil
14.	Total Silica	SiO <sub>2</sub>	14.1 ppm
15.	Nitrites	NO <sub>2</sub>	Nil
16.	Total Hardness	CaCO <sub>3</sub>	196 ppm
17.	Total Suspended Solid		15 ppm
18.	pH value at 25°C	-	8.0
19.	Turbidity		15 NTU



**5 X 800MW YADADRI TPS  
AIR CONDITIONING SYSTEM (SWITCHYARD  
AREA)**

**SPECIFICATION No: PE-TS-417-553-A001**

**SECTION : II**

**SUB-SECTION : C1**

**REV: 00**

**SHEET 1 OF 1**

## **SECTION-II**

### **SUB-SECTION-C1**

**SPECIFIC TECHNICAL REQUIREMENT –  
SWITCHYARD AREA WITH ANNEXURE – I, II, III &  
SWITCHYARD CONTROL BUILDING DRAWINGS**



**TECHNICAL SPECIFICATION FOR AIR CONDITIONING SYSTEM**  
(SWITCHYARD CONTROL BUILDING)  
PROJECT: 5 x 800 MW, YADADRI TPS, NALGONDA

SPECIFICATION No: PE-TS-417-553-A001	
REV.0	DATE: JULY 2020
SECTION – II, SUB SECTION C1	

## INTENT, SYSTEM DESCRIPTION, DESIGN CRITERIA AND SCOPE

### 1.0 INTENT OF SPECIFICATION

- i. This specification covers design, manufacture, inspection, testing at bidder's and/ or his sub vendor's work(s), packing, transportation to site, handling at site, erection, testing and commissioning, final painting and carrying out acceptance tests at site of **Air - Conditioning System** as detailed in this section of specification for **Switchyard Control Building of 5 x 800 MW, YADADRI TPS, NALGONDA.**
- ii. The requirement(s) specified under this section of this specification shall be considered as part of this section. In case of variance between sections, the requirement of this section shall prevail for switchyard scope. *TSGENCO contract specification provided as Annexure-III shall be referred strictly. Requirements of the same regarding system specification & applicable for switchyard part shall be provided by the contractor without any deviation.*
- iii. It is not the intent to specify herein all the details of design and manufacture. However, the equipment shall conform in all respects to high standards of design, engineering and workmanship and shall be capable of performing the required duties in a manner acceptable to Purchaser/ Customer, who will interpret the meaning of drawings and specifications and shall be entitled to reject any work or material, which in his judgment is not in full accordance herewith.
- iv. The bidder shall be deemed to have understood completely all the tender drawings and documents and quoted accordingly.
- v. The bidder has to note carefully the parameters, estimated capacities of equipment indicated and the tender drawing in the specification are only for guidance of the bidder. The system shall be designed as per relevant standards/ codes and exact capacities and quantities are to be estimated by the bidder. All such estimations and design calculations shall be submitted for Purchaser's approval.
- vi. *Deviation:* In case of any deviation, the bidder shall indicate separately the deviations clause-wise with respect to the specification in the 'Schedule of Deviation' given in this specification. Deviations in any other form including clarifications / assumptions / etc will not be considered and it will be construed that the bid conforms strictly to the specification.
- vii. The contract shall be on **Unit Rate Basis** for the package. In case of change in the input after placement of order the additions/ deletions to the scope shall be settled on the basis of unit rates agreed between the Purchaser and Contractor.
- viii. During contract stage, quantities of various items of BOQ may vary to any extent and same unit rates will be applicable.
- ix. The Purchaser, Consultant and Customer in this specification stand for BHEL, TCE and TSGENCO respectively. The successful bidder shall be referred to as Contractor.

#### 1.1.0 AIR CONDITIONING REQUIREMENTS

##### 1.1.1 Air Conditioning for Switchyard Control building

Air conditioning system for various areas of switchyard control building shall be provided as below:



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Sl no.	Name of the Area	Dimensions of area (Sq. m)	AC Equipment	Equipment Capacity
1.	Control Room	20 m x 21 m	Air Cooled Precision Package AC Unit	3 x 30 TR*
2.	AC Plant Room	8 m x 10 m		
3.	Conference room	12 m x 10 m	Cassette AC Unit	3 x 4 TR
4.	Office room DE	6 m x 5 m	Cassette AC Unit	1 x 3 TR
5.	Office room ADE	4 m x 5 m	Cassette AC Unit	1 x 3 TR
6.	Staff room	5.5 m x 5 m	Cassette AC Unit	1 x 3 TR
7.	Electrical Test Lab	7 m x 5 m	Cassette AC Unit	1 x 3 TR

Air-conditioning shall be provided on continuous basis to maintain the specified inside conditions for above rooms in the building.

Adequacy of chosen AC equipments to cater both tonnage and CFM requirements of space to be cooled shall be ensured. Heat load estimates shall be prepared during detailed engineering to ensure the same; however minimum capacity of AC units for various rooms shall be as per the table above.

\*Net cooling capacity of the each precision package AC unit shall not be less than 26.5TR after considering deration.

**A. Precision Package AC (Air cooled)**

DX type air-cooled precision package AC units shall be provided on 3 x 50% basis to cater the air conditioning heat load of control room.

DX type air-cooled precision package AC units shall be top discharge type designed specifically for high sensible heat ratio applications such as control room.

Air cooled Precision AC shall be top discharge type designed specifically for high sensible heat ratio applications complete with scroll compressors (suitable for R407C/ R410a refrigerant only), motors complete with suction and discharge shut off valves, high pressure cut out, low pressure cut out, evaporator fans with highly efficient EC motors and their controls, insulated SS drain pan electrode type humidifiers with controls, electric strip heaters and built in microprocessor based control panel thermally and acoustically lined powder.

The compressor shall have proper lubrication system. Safety devices viz. high-pressure switch, low-pressure switch, low oil pressure (if applicable) shall be provided and such devices shall be electronically operated. Manual reset on safety cut out shall be provided. The horsepower for the



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compressor motor shall be adequately sized or 110% of the rated power required for the unit including drive loss.

Capacity control shall be devised by providing at least two compressors.

One (1) No. fan and fin type air cooled condenser vapor inlet and liquid outlet connection for refrigerant, drain connection etc. One (1) no. evaporator coil and fan having direct expansion type copper tubes and aluminium fins. The evaporator fan shall be DIDW forward curved centrifugal fan.

The precision PAC unit shall have electronic expansion valve for superheat control.

The packaged AC units shall be kept in AHU room whereas condensing unit shall be kept outside nearby AHU room and the two are connected with suitably insulated copper refrigerant piping.

Outlet of all the package units shall be collected in a common plenum chamber through flexible canvass connection & volume control dampers. The conditioned air is then distributed to various AC areas through supply air duct along with diffuser (with volume control damper) running above false ceiling. The return air from all these areas shall be collected above false ceiling & shall be taken back to the AHU room. The return air to AHU room will be mixed with a fixed amount of fresh air before being circulated again.

On/ off trip indications for Precision AC unit components shall be available at the unit mounted micro-processor based local panel.

**Equipment specification for Air cooled Precision package AC unit mentioned under Cl. no. 6.12.02 of TSGENCO specification for Air conditioning system shall be also be adhered to.**

**B. Ceiling Mounted Cassette Type Unit (Multi Flow Type)**

The Cassette AC units will be complete with indoor evaporator unit, outdoor condensing units, hermetically sealed rotary/scroll compressor, filters, piping, valves, refrigerant strainer, Controls, instruments, control panel/ starter panels, vibration isolator pads and cordless remote control units. Outdoor unit shall comprise of hermetically sealed reciprocating/ rotary compressors mounted on vibration isolators, propeller type axial flow fans and copper tube aluminum finned coils all assembled in a sheet metal casing. The casing and the total unit shall be properly treated and shall be weatherproof type. They shall be compact in size and shall have horizontal discharge of air. Outdoor units will be placed on outer wall or top of roof. The indoor units shall be Ceiling Mounted Cassette type. The housing of the unit shall be powder coated galvanized steel. All the indoor units regardless of their difference in capacity should have same decorative panel size for harmonious aesthetic point of view. Unit shall have four way supply air grills on sides and return air grill in center. Removable and washable polypropylene filters shall be provided. They shall be complete with multifunction cordless remote control unit with special features like programmable timer, sleep mode and soft dry mode etc. Copper refrigerant piping, wiring of indoor/outdoor unit shall be provided inline with distribution of AC units in various rooms and placement of outdoor units as per layout/ site conditions.

*Suitable Voltage stabilizers shall be provided for each of the cassette AC units.*





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**1.1.2 Design Criteria:**

<b>Ambient Conditions</b>	<b>DB in ° C</b>	<b>WB in ° C</b>	
Summer	42.7	26.5	
Monsoon	30.9	26.5	
Winter	15.7	13.6	
Desired Inside Condition	Control Room	Non Critical Areas	
	22°C±1°C 55%±5% RH	24°C±1°C 60% RH	
Floor Area	As per control building layout		Sqft
Exposed glass area	As per control building layout		Sqft
Exposed wall area	As per control building layout		Sqft
Illumination Heat load	21.4		Watt per sq. m
Equipment heat load	31 (Control room)		kW
Occupancy	15		People
Fresh Air requirement	1.5		ACPH

- ✓ Office rooms, Conference rooms etc. shall be treated as non-critical areas.
- ✓ A design margin of 5% on total sensible and latent heat shall be considered while designing the AC Plant capacity for each area. An overall margin of 10% on calculated cooling load and CFM requirements shall be considered in selecting Plant capacity.
- ✓ Actual rating of precision package AC units shall be as per requirements of this specification after considering deration at design ambient of 45 deg. C.

**1.1.3 SYSTEM DESCRIPTION**

a) GSS duct shall be of lock forming grade, zinc coated conforming to IS 277 with coating grade of 180 g/m<sup>2</sup>. The ducting thickness shall be as follows: -

<b>Larger dimension of duct</b>	<b>Gauge</b>
Up to 750 mm	24 G
From 751 to 1500 mm	22 G
From 1501 to 2250 mm	20 G
Above 2251 mm	18 G

- b) Duct sizing and fabrication shall comply with requirements of IS 655. Air distribution velocity shall be 7.62 m/s. (max.) for main duct, 6.0 M/s. (max.) for branch duct and 2.5 m/s. for the diffusers/ grills. In case of space constraint in certain areas velocity restrictions shall be relaxed.
- c) Ducting shall include damper with control arrangement at each branch off and wherever necessary.



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- d) Supply air diffusers/ grilles (Frame and Louvers of Diffuser/ Grilles shall be of extruded aluminium of 1.2 mm thick section, duly powder coated) with volume control dampers. Return air Diffusers will have no volume control Damper.
- e) Acoustic insulation 25 mm thick of first 6 m of ducting after AHUs but limited to plenum.
- f) **Insulation**

S. N.	Surface	Insulation materiel	Insulation form	Thickness (mm)	Finish
1	AC Duct	Al foil faced Nitrile rubber	Roll / Slab	13	Al Foil Facing
2	Acoustic insulation of first 6 m of ducting after AHUs but limited to plenum	Nitrile rubber foam (140 Kg/Cu.m density)	Roll / Slab	25	Perforated Al Sheet
3	Refrigerant Piping	Al foil faced Nitrile rubber	Roll / Slab	39	Al Cladding

- g) Necessary air balancing shall be achieved through volume control dampers in the ducts.
- h) Strip heater shall be provided in the common plenum *in case* the same is not standard part of PAC unit. Heating requirements to be worked out during detailed engineering.
- i) The pre- filters shall be of HDPE construction with G.I. frames of adequate thickness but not less than 20 SWG. The filters may be in panels of sizes about 600 mm x 600 mm for easy handling of the same. The face velocity of air across the filters shall not exceed 2.5m/sec and maximum limitation pressure drop will be 6 mm of WG. Filter thickness will be at least 50 mm. The efficiency shall be about 90% down to 10-micron size particles.
- j) The fine filters shall be having efficiency of 99% down to 5 microns. The filters shall be of cleanable type construction of reinforced glass fiber or cotton fabric or fabric-like material sandwiched in between two galvanized wire netting arrangement in a uniformly corrugated form to increase the surface area.
- k) The filters shall have G.I. frames of adequate thickness. The filters may be in panels of size about 600 x 600 for easy handling.
- l) The filter panels shall be mounted on the ladder type angle iron holding frames. The frames shall be designed strong enough to take the load of double the pressure drop in dirty condition of the filters. Face velocity of air across the filters shall not exceed 1.5 m/sec. these high efficiency filters shall be provided with differential pressure switch with alarm.
- m) Motorized fire damper with sensors, control etc. at strategic locations, as required. Provision of manual overriding operation through latch shall also be kept with the Motorized Fire Damper.